

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

FEBRUARY 27 1960

Introducing

'ILOSONE' *

LAURYL SULPHATE
SUSPENSION

A more effective treatment
for common bacterial
infections in children



'Ilosone' brand propionyl erythromycin ester gives quicker, higher and longer-lasting blood levels than the older erythromycin preparations. Available as the lauryl sulphate salt, in a readily acceptable suspension. Each 5 cc. contains the equivalent of 125 mg. erythromycin base. The dose is a half to two teaspoonsfuls every six hours (four times daily) depending on age. 'Ilosone' Lauryl Sulphate 125 for Oral Suspension is supplied in bottles to make 60 cc., each with a 5 cc. plastic spoon.

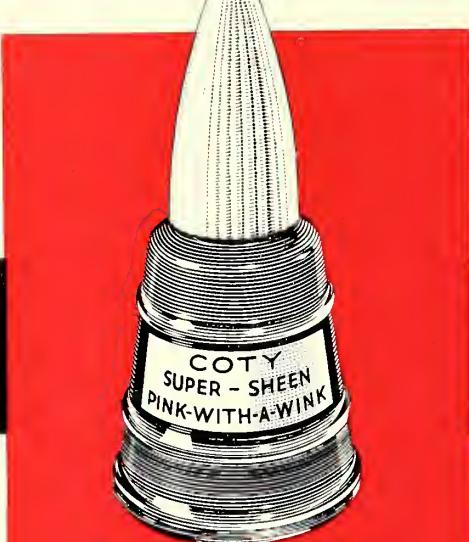
* TRADE MARK

Lilly

ELI LILLY AND COMPANY LIMITED · BASINGSTOKE · ENGLAND

IT'S NEW! IT'S DIFFERENT!

IT'S SPRING'S
BIGGEST
BEAUTY NEWS!



High Fashion Shades,
matched to
Coty '24' Lipstick

Pink-with-a-Wink

Tulip Pink

Bermuda Coral

Rose Satin

Rose Amaranth

Magnet Red

Racing Red

Sweet Tangerine

Flame Gold

Retail 6/6

Pearlidescent Rose

Pearlidescent Flame

Retail 8/9

COTY

Super-Sheen
3-in-1

NAIL
ENAMEL

The unique new Nail Enamel that is
base-coat, enamel and seal-coat in one!

Actually made in U.S.A.

- * Superb lustre and gloss.
- * Exceptionally long-lasting.
- * Easily applied . . . perfect consistency . . . won't run.
- * Quick-drying—colours evenly—doesn't streak.
- * Instant touch-up with no edges.
- * Won't dry out the nails.
- * Real sable brush to make application a pleasure.

NEW

Non-smear Nail Enamel REMOVER

Removes all colour—no stain left on nails or fingers. Contains Cholesterol to prevent dryness of the nails and cuticles. Leaves fingertips pleasantly perfumed.

Retail 5/9



6 FREE BOTTLES
of
Robinson's Lemon
Barley Water
with your soft drinks order!

An order of six dozen of any of Robinson's soft drinks—Lemon or Orange Barley Water, Orange Smash, Orange, Lemon or Grapefruit squash and unsweetened Sicilian Lemon Juice—qualifies you for this special bonus offer. The 12½ oz. bottles of Sicilian Lemon Juice count as ½ bottles for the purpose of the bonus.

Remember, Robinson's Barley Water is one of the leading concentrates in Britain with sales that are growing all the time. This year, the heaviest advertising ever will still further increase the demand for Robinson's fast-selling soft drinks. Nation-wide Press, Poster and T.V. campaigns will be strongly supported at the point of sale by colourful display material.

Take full advantage of this generous bonus offer which represents an overall profit for you of *at least 1/- per bottle*. Place your order with our representative or send it direct to us.

**This special bonus will run for 8 weeks
from February 29th to April 23rd.**

Robinson's
J. & J. COLMAN LIMITED, CARROW WORKS, NORWICH



**Extensive
National
Advertising
in the Press
and Women's
Magazines
plus
T.V.**

**will create
GREATER sales
for you**

**Order NOW to ensure
ample supplies of*
MODERN
ANTI-COLIC TEATS

— the skin is —

contented baby—
happy mother

— thanks to 'MODERN' efficient feeding!
Triple Perforation and Spiral Reinforcement
give an even, air-free flow.
The high quality, moulded rubber withstands
repeated boiling and guarantees long life.
Fewer 'MODERN' Tears are needed from birth
to weaning, reducing 'breaking in' troubles.
A special lip is provided for easy, hygienic removal and
correct feeding rate. YOUR Baby Deserves the Best—

MODERN ANTI-COLIC TEATS

for nearest to natural feeding
FROM ALL CHEMISTS AND CLINICS 7½d.

Write TODAY for YOUR Baby's Free
Post-Free 'MODERN' Baby Diary.

Name.....
Address.....

CANNON RUBBER MANUFACTURERS LTD.,
Dept. ASHLEY RD., TOTTENHAM, LONDON, N.17.

Don't miss out—make certain you
have sufficient stock to meet the demand!

Spirally re-inforced, triple perforated,
moulded from high quality rubber,
'MODERN' Anti-colic Teats, individually
packed—are available in attractive
counter display units—and retail
at ONLY 7½d.

THE CANNON RUBBER MANUFACTURERS LTD.
ASHLEY ROAD, TOTTENHAM, LONDON, N.17



Introducing . . .

*a new concentrated
floral disinfectant!*

PARADOR



Superbly presented and backed by powerful advertising, this new PARADOR product will be a best seller!

It has many uses . . . as an air spray, in the rinsing water after washing clothes etc., in the bath—and a little goes a long way.

3 perfumes:
LAVENDER,
GARDENIA,
SPRINGTIME.

2/6

**don't miss the special
BONUS OFFER
on all our products
including MOTHAKS**

PARADOR
AIR FRESHENER
ROSE, LAVENDER
HYACINTH

1/3

PARADOR
AEROSOL
LAVENDER PERFUMED

NOW
ONLY
3/9

THOMPSON & CAPPER LTD • LIVERPOOL 24

André Philippe
for the first time...
HAIR LACQUER
Specially for Men!

IT'S NEW—IT'S IN DEMAND!

Take advantage of this new market

Packed 1 doz. 30/- per doz. plus 50% P.T. Retail Price 5/-
Showcards included

IMMEDIATE DELIVERY

Available through chemists' wholesalers or direct from us:

ANDRÉ PHILIPPE LIMITED

16 COSWAY ST., MARYLEBONE, LONDON, N.W.1. Tel: PAD 6502

Also from **OSBORNE GARRETT & CO., LTD.**

London • Birmingham • Glasgow • Manchester

We shall be pleased to send you a complete price list on request



★ See our

STAND No. 182 at
IDEAL HOMES EXHIBITION
Olympia, March 1st-26th

BURROUGH'S
S.Y.R. DOUBLY
RECTIFIED
JAMES BURROUGH LTD.,
I CALE DISTILLERY LONDON S.E.11

**CHEMIST'S DICTIONARY OF
MEDICAL TERMS** 7th Edition

Prepared primarily for pharmacists, the Dictionary is indispensable also for pharmaceutical manufacturers, advertising agents concerned with the marketing of medicinal products and indeed all who have to find their way around among the multifarious medicinal compounds of modern times.

Order direct from: PRICE 17/6. Postage 9d.

THE CHEMIST & DRUGGIST
28 ESSEX STREET, STRAND, LONDON, W.C.2

Sold for over 150 years...

SOLAZZI THE
CHEMISTS' BRAND



The words SOLAZZI and LIQUORICE have become
very nearly synonymous

NOW AGAIN IN GOOD SUPPLY

FROM ALL WHOLESALERS

**C L. S. D. 4 U
1001
ON P. 48**

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Timely news!

Many have been the requests for Multivite in a pack which would be economically more attractive to families in which two or three members rely upon the protection it gives. Meet this need with the new pack of 150 pellets. Special terms for quantities on direct orders. Please apply for details.



'MULTIVITE'

TRADE MARK

Vitamins A, B₁, C and D₂ in full potency. Chocolate coated.

'MULTIVITE'	TRADE	RETAIL
New Family Pack. 150 pellets	6/2	9/3
Bottle of 50 pellets	2/4	3/6
Bottle of 500 pellets	14/6	21/9
Bottle of 1000 pellets	27/6	



THE BRITISH DRUG HOUSES LTD. · LONDON · N.1

POWERFUL $\frac{1}{2}$ -PAGE
ADVERTISING FOR PAL

IN THE

DAILY EXPRESS

LAUNCHES THE GREATEST
SHAVING OFFER EVER!

A
FREE

INJECTO-MATIC RAZOR

to all your customers who buy
12 PAL INJECTOR BLADES
FOR ONLY **3/6d!**

BIGGEST-EVER PAL ADVERTISING
backs this amazing offer in the
DAILY EXPRESS with its 12,147,000 readership



Use these intriguing new display aids

AND Make sure you have plentiful stocks to meet the big demand

An Ever-Ready Product

PAL INJECTO-MATIC RAZOR shaves closest of all!

RIDDOVYDRIN ELIXIR

A NEW PREPARATION SPECIALLY COMPOUNDED TO
MEET WITH THE NECESSITY OF A POTENT SYRUP TO
RELIEVE ALL FORMS OF COUGHS ASSOCIATED WITH:—

ASTHMA, BRONCHITIS and INFLUENZA
CONTAINING VITAMIN C

ONE SIZE ONLY — 3oz. CARTONED PANEL
UNSUITABLE FOR CHILDREN UNDER 14

RIDDELL PRODUCTS LIMITED

RIDDELL HOUSE · 10-14 DUNBRIDGE STREET · LONDON, E.2
AND AT MANCHESTER

PHONE: SHO 7254-5-6

ROYAL JELLY — "LAIDABEILLE"

The most powerful and energising of Natural tonic foods

Each box of twenty-six drinkable ampoules contains 1250 mg. pure Royal Jelly and 150 mg. Queens' embryos (a combination of nutritives reserved exclusively by registered patent), making "Laidabeille" even better than Royal Jelly alone. No similar product in drinkable ampoules contains so much pure Royal Jelly.

rezesta—B

Containing eight essential
vitamins and
Royal Jelly in capsules

An important natural diet supplement stimulating the metabolism and re-invigorating the living organism. Royal Jelly is widely used for its contribution to stamina and well being. In all parts of the world people have taken to it as a revitaliser, as a tonic and rejuvenator. It is recommended for general fatigue, for the convalescent, the "run-down" and the dispirited, in countless cases it has restored vigour, energy, well being, optimism and health.

Agents and Distributors for all countries invited

TOM E. HOBSON LIMITED

46 CROOKED BILLET, LONDON, S.W.19 WIMbledon 0402

This
is the Pack for
YOUR dispensary

SUPPOSITORIES OF
BISMUTH SUBGALLATE
COMPOUND B.P.C.
MANUFACTURED BY
RICHARD DANIEL & SON LTD. DERBY

Supplies obtainable
from your usual
Wholesaler

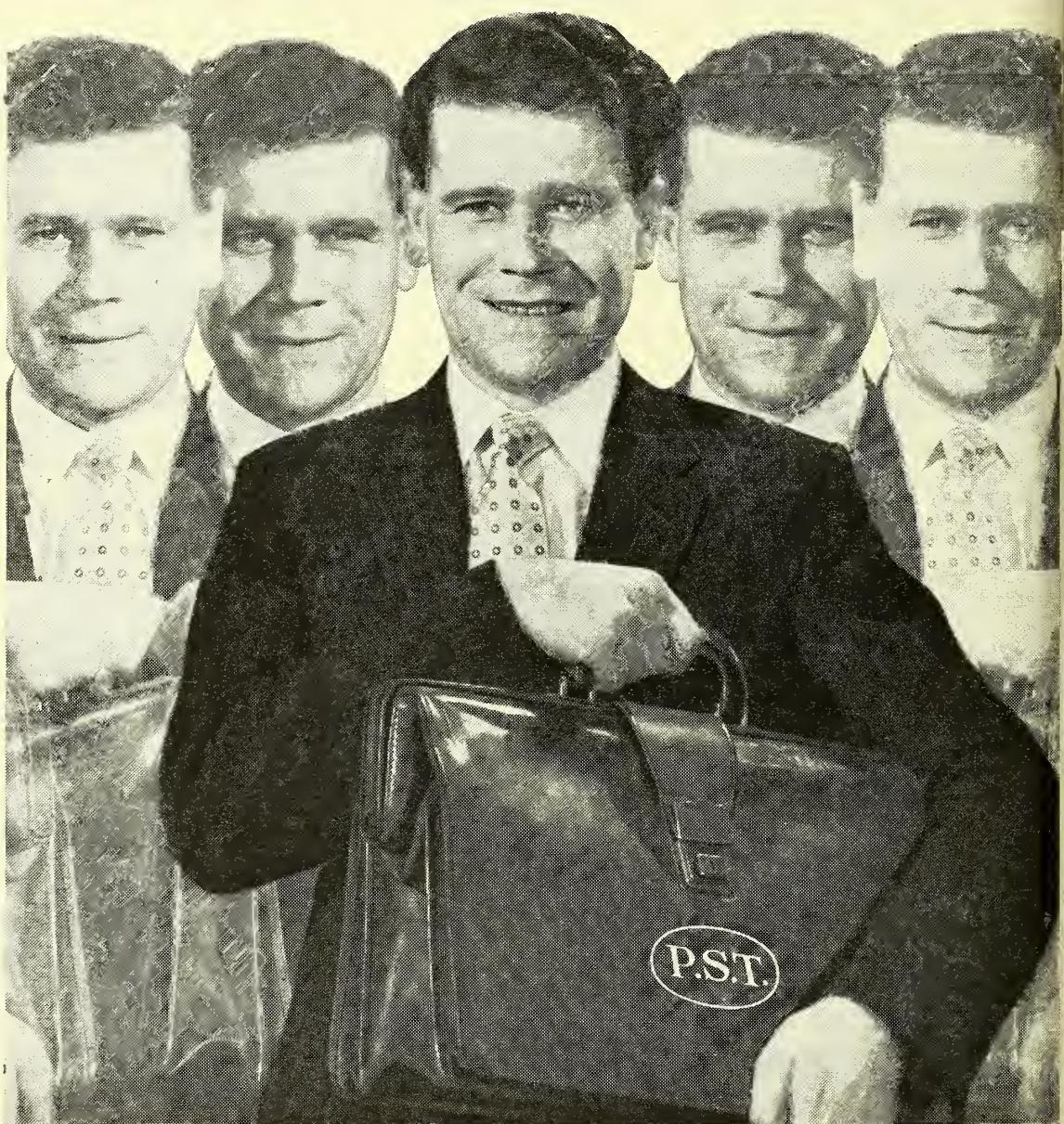
Manufactured and packed
in the Laboratories of

Sample box gladly sent upon request from

RICHARD DANIEL & SON, LTD.

Mansfield Rd., Derby. Tel. 40671 (10 lines) and at
Grosvenor St., Ashton-u-Lyne. Tel. 5161 (9 lines)

A new name on the case-



a bright future in the bag!

The Chas. H. Phillips Chemical Co Ltd, and Scott & Turner Ltd

join in bringing you the big news of a new name—

Phillips, Scott & Turner Ltd

HOW YOU WILL BENEFIT!

From March 1st, 1960, you will be able to buy the products previously sold by The Chas. H. Phillips Chemical Co Ltd, and by Scott & Turner Ltd, *on combined terms*.

STREAMLINE YOUR STOCK-BUYING!

These combined terms will bring you a much easier and more economical system. You will get attractive display discounts on modest-size parcels which cover the entire range of popular products.

CUT YOUR WORK BY HALF!

With one name—PHILLIPS, SCOTT & TURNER LTD combining the interests of both companies—one order will do the work of two. One order, one invoice, one statement, one cheque—all this adds up to an arrangement that you'll find simpler, faster, better all round.

ONWARDS AND UPWARDS!

So now's your chance to make the most of this progressive new venture—PHILLIPS, SCOTT & TURNER LTD. There are dynamic new advertising plans ahead, schemes which will send their solidly established sellers even further onwards and upwards!

PHILLIPS, SCOTT & TURNER LTD • 179 ACTON VALE • LONDON W3

When
you
look
into
it



there is no better relief for a "stuffy nose" than

NEOPHRYN*

trade mark

This time of year most people suffer that "can't breathe" feeling through colds, catarrh or sinusitis. There will be a great demand for the safe, quick, lasting relief of Neophryn. Make sure you have a sufficient supply. Retail price 3/6d.

* (1-m-hydroxy- α -methylaminomethyl benzyl alcohol hydrochloride).

BAYER PRODUCTS LTD., Kingston-upon-Thames, Surrey.

Associated Exporting Company: WINTHROP PRODUCTS LTD.

a Nationwide survey of the first aid dressings market

shows how
you can



DOUBLE your
first aid dressings
business

Heavy
max
*advertising starts off
on March 18 with a
half page 'Ton of silver
competition' in the*

Daily Express

*stock up
now!*

TAKE ADVANTAGE OF THE SPECIAL
BONUS TERMS OFFERED NOW. SEE THAT
MAX AEROSOL STOCKS ARE ADEQUATE.



MONDART LIMITED, 49 Park Lane, London, W.1

The facts revealed by a nationwide survey of the first aid dressings market

1

90% of people in Great Britain use first aid dressings

2

Less than 50% of people actually have a tin of first aid dressings in their home at this moment

CONCLUSION

More than half your customers have exhausted their supply of dressings—they need another tin of Elastoplast right now!

**sell Elastoplast to these people
and you can**



**DOUBLE your
first aid dressings
business**

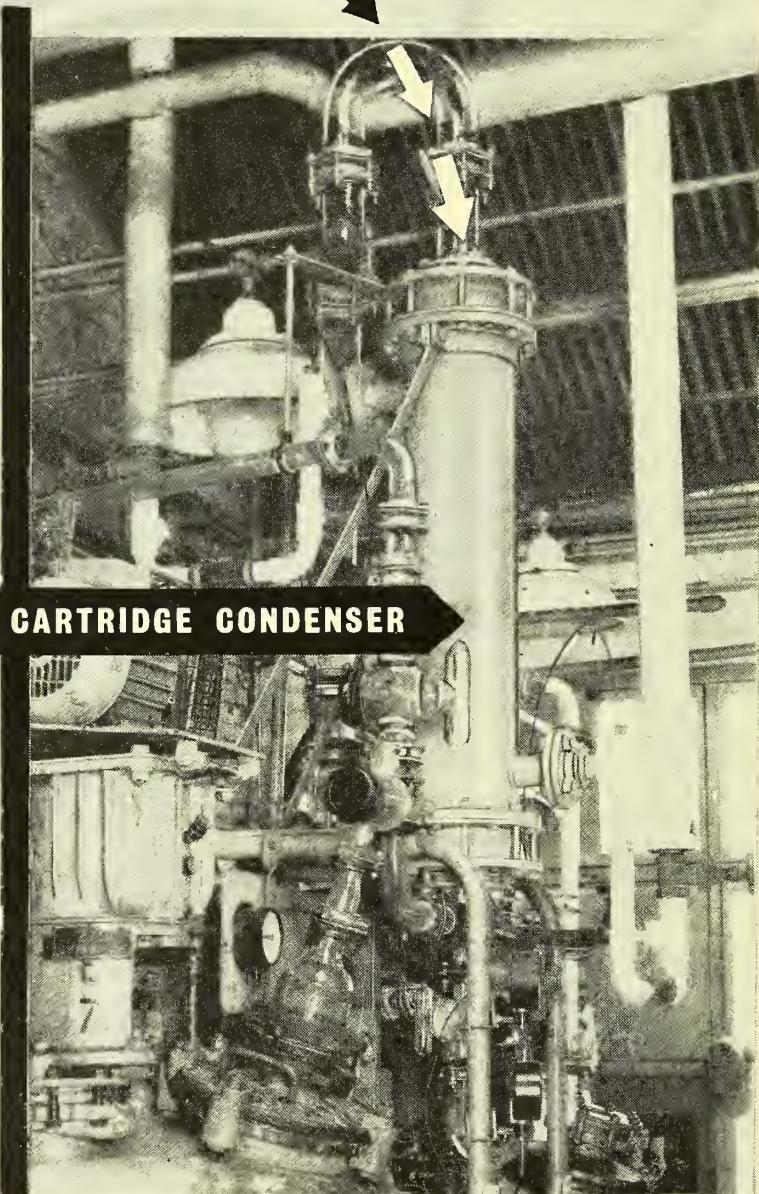
CONDENSATION

OF CORROSIVE VAPOURS



The Powell Duffryn Cartridge Condenser has proved its efficiency in the economical handling of corrosive liquids and vapours in many chemical and pharmaceutical applications. The unit relies on impregnated graphite for its corrosion resistance on the process side.

The steel shell is completely coated for protection against weak acid solutions when washing through, and outside, against atmosphere which eliminates painting and enables a permanently clean appearance to be maintained.



THE POWELL DUFFRYN CARTRIDGE CONDENSER

PRINCIPAL FEATURES:

- RESISTANT TO MOST ACIDS, ALKALIS AND SOLVENTS
- HIGH THERMAL CONDUCTIVITY
- LOW PRESSURE DROP
- SIMPLE RUGGED CONSTRUCTION
- LIGHT IN WEIGHT
- OCCUPIES MINIMUM SPACE
- EASILY INSTALLED AND MAINTAINED
- EMBODIES OWN SUPPORT BRACKETS
- READILY MATES WITH CHEMICAL PIPE WORK
- 12 MONTHS GUARANTEE
- PROMPT DELIVERY

Photograph by courtesy of British Drug Houses Ltd.

Leaflet No. C.11/59 gives full information.

POWELL DUFFRYN CARBON PRODUCTS LIMITED

Chemical engineering design, fabrication,
installation and commissioning.



SPRINGFIELD ROAD, HAYES, MIDDLESEX. TELEPHONE: HAYES 3994

2

steps that pay . . .

FIRST

DISPLAYS EARN IMMEDIATE SALES INCREASE

Remind every single person that steps inside your shop that he or she probably needs Elastoplast. Big displays of Elastoplast are the best reminder you can have.

One mathematically minded chemist who has made a study of the Display-Sales relationship has proved that good displays can increase first aid dressings turnover by as much as 100%

TRAIN YOUR ASSISTANTS TO 'SELL'

Train your assistants on completion of every sale to ask this simple question : "Are you all right for Elastoplast ? "

Ask every single customer. One in every two is a potential extra customer !

SECOND

. . . take them now

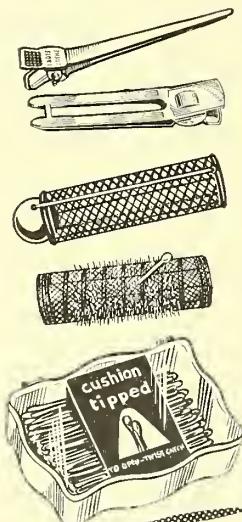


DOUBLE your
first aid dressings
business

DYNAMIC 1960 ADVERTISING CAMPAIGN for *Ladye Jayne* HAIR BEAUTY AIDS

For 1960—the Centenary
Year of the proprietors of
Ladve Jayne Hair Beauty Aids—

Ladye Jayne Hair Beauty Ads—
the greatest advertising campaign for Ladye Jayne in their 100 years history will be unleashed. Between now and the end of 1960 scores of compelling appeals will be published—covering the country's largest mass-circulation Women's papers. You, as a business man, well know that such an onslaught cannot fail to have a marked impact on YOUR sales—you're going to sell more Ladye Jayne Curl Clips, Curlers, Hair Grips, Fashion Rollers, etc., than ever before. Don't be caught without stock—be ready with the full Ladye Jayne range to greet the coming custom!—from repeated exhortations in the following papers:—



WOMAN
WOMAN'S OWN
WOMAN'S DAY
WOMAN'S REALM
WOMAN'S ILLUSTRATED
HONEY
SHE
EVERYWOMAN

A REPETITIVE READERSHIP
OF OVER 12 MILLION
PROSPECTIVE BUYERS

dozey barker

Neo-Rhinamid Bailly

nosey parker

Neo-Rhinamid clears stuffy noses quickly and profitably

It doesn't take a Nosey Parker to smell good business in Neo-Rhinamid. It's as plain as the nose on your face—Neo-Rhinamid acts quickly and sells quickly. At 3/3 per plastic squeeze pack every customer with a nose cleared by Neo-Rhinamid means nearly 1/- in the till.

NEO-RHINAMID contains Liq. Benzalk. Chloride BP 0.04% and Ephed. Hyd. BP 1%. Order NEO-RHINAMID in the 3-colour Display Pack containing 6 x 15 cc plastic spray bottles. Trade price 11/- per Display Pack plus PT 2/8/d.

Bailly Ltd
London

London

Bengue & Co Ltd

Mount Pleasant Wembley Middlesex

This advertising helps you to cash in on this GREAT OPPORTUNITY

Starting next month, Elastoplast advertisements spotlight the dangerous deficiency that is now known to exist in half the homes in this country.

Remember, a nationwide survey revealed that 50% of people have used up their home supply of first aid dressings. And many more must be running low!

National newspapers and women's magazines will carry big, powerful, human advertisements that urge readers not to wait for the next emergency —to go to their chemist and get fresh supplies of Elastoplast now.

Elastoplast advertising creates a demand that can



DOUBLE your
first aid dressings
business



All Elastoplast dressings—fabric, waterproof and Pocket Strips—give you the extra antiseptic protection of Domiphen Bromide B.P.C. So keep a full tin of Elastoplast at home, at work, and a Pocket Strip ready for immediate use. Don't take risks—take Elastoplast.

Elastoplast

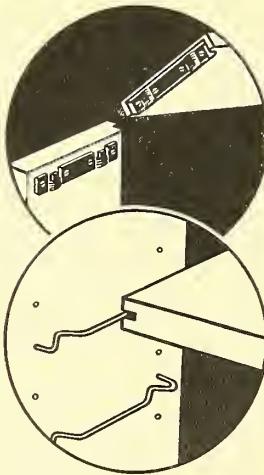
an S&N product

FABRIC &
POCKET ST

**Cut
shopfitting
costs with**

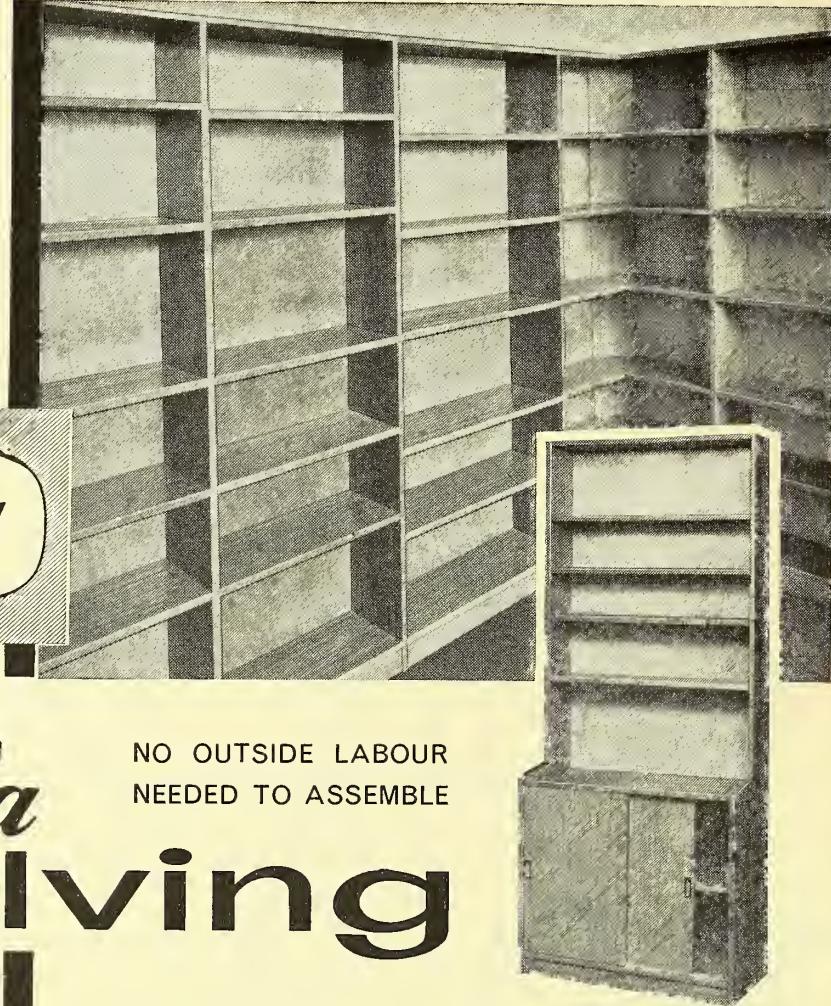
Reploy

Lundia
shelving



Easy to assemble Strong fully interlocking bars fit neatly into one another, securely holding top, bottom and centre shelf to uprights.

Shelves simple to adjust Special spring clips plug into uprights of Remploy-Lundia Shelves at $\frac{3}{4}$ inch intervals. The shelves, grooved at both ends, slide along the clips, completely concealing them. Shelf grooves do not show from front view.



NO OUTSIDE LABOUR
NEEDED TO ASSEMBLE

Fitting or refitting your shop with Remploy Lundia pre-fabricated shelving saves you money. It needs no outside labour to assemble . . . it costs far less than custom-built installations . . . and it is remarkably adaptable.

Because of the comprehensive range of sizes, Remploy-Lundia Shelving can fit into any given wall space to *within 6 inches*. Each shelf is adjustable—can be moved up or down at intervals of $\frac{3}{4}$ inch.

Any combination of widths can be joined together, and extension bays are easily added to existing Remploy-Lundia units.

Made from polished hardwood in natural finish, Remploy-Lundia shelving is smart looking as well as practical. Remploy-Lundia can cost as little as £3 per foot by 6ft. high.

Write today for full details of Remploy-Lundia Shelving to:



REMPLOY LIMITED

Oxgate Lane, Cricklewood, London, N.W.2

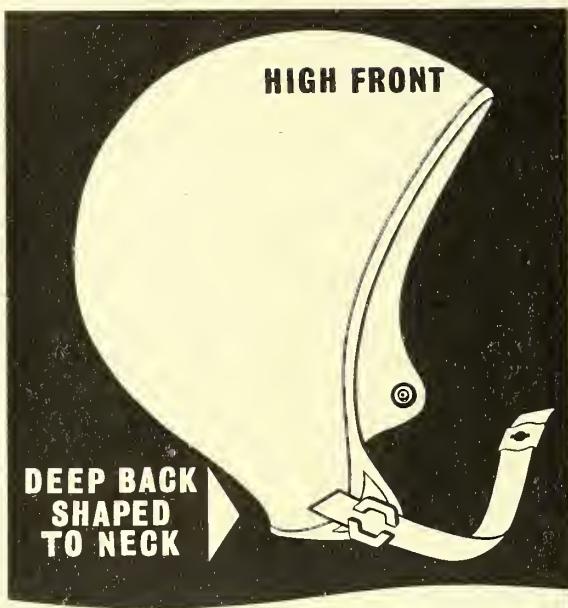
Telephone: GLAdstone 8020

Order stocks now of these Elastoplast dressings

You'll
need twice
the stock
you normally
carry to



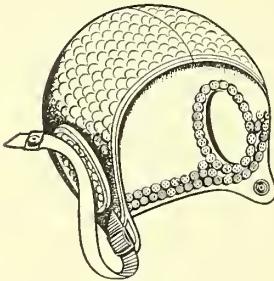
DOUBLE your
first aid dressings
business



This entirely new universal shape fits all head sizes. It takes the place of the former small/medium, and medium/large sizes and enables a greater variety of colours and styles to be held without increasing stocks. All Submarine swimming caps are now made in this new shape.

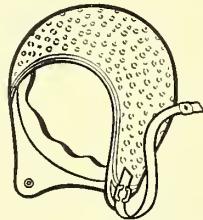
The new universal size demands :

- (a) A high quality cap that will stretch easily.
- (b) A cap that is the natural shape of the head and the neck i.e. it is moulded with a high front and a deep back. When the cap is worn on a large head the back will be in a normal position, but with a smaller head the back will be lower down the neck, where it will still fit snugly and comfortably.



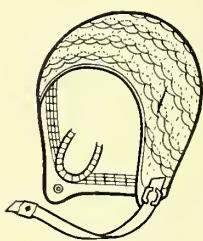
TRIDENT

This watertight swimming cap has internal suction cups which hold the cap snugly and comfortably to the head, and earpieces to protect the ears from pressure. The most comfortable swimming cap in the world. Packed in an attractive film window display carton. 12 to a display outer. 6/6 Retail.



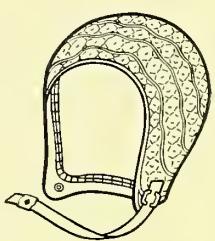
SEAL

The inner flange forms an air pocket, keeping the hair completely dry. Because of the internal construction this cap is still made in the small/medium and medium/large sizes. Sleeve packed for easy handling and display. 12 to a display box. 4/9 Retail



PENGUIN

This popular swimming cap is obtainable either with or without strap. Each cap is in a polythene bag. 12 to a display carton. 3/6 Retail



STANDARD

Fitted with water-excluding ridges. Packed in boxes of 12. 2/11 Retail.

CLIPPER 2 (Strapless)

Fitted with water-excluding ridges. Packed in boxes of 12. Universal and Large Sizes only. 2/6 Retail.

Sizes : In addition to the UNIVERSAL SIZE there is a LARGE SIZE which caters for wearers who have extra large heads or very abundant hair, and a Junior size for children, throughout the range. Every cap fully guaranteed.

W. W. HAFFENDEN LTD.

RICHBOROUGH RUBBER WORKS
SANDWICH · KENT

Telephone : Sandwich 3381

NEW SHAPE FITS ALL HEAD SIZES

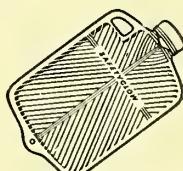


Although rubber prices have advanced substantially, last year's prices are maintained

2/6 — 6/6

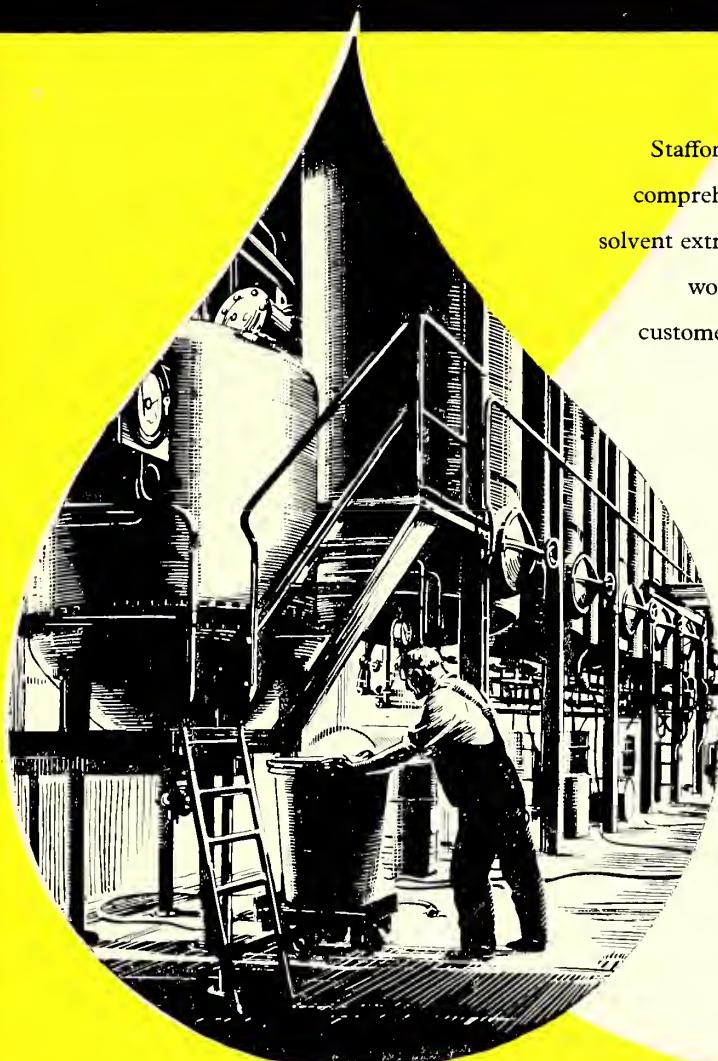
SUBMARINE HOT WATER BOTTLES

A complete range at competitive prices with metal or rubber stoppers. Every bottle fully guaranteed.



An EXTRACTION SERVICE

for natural raw materials



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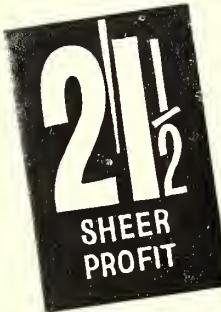
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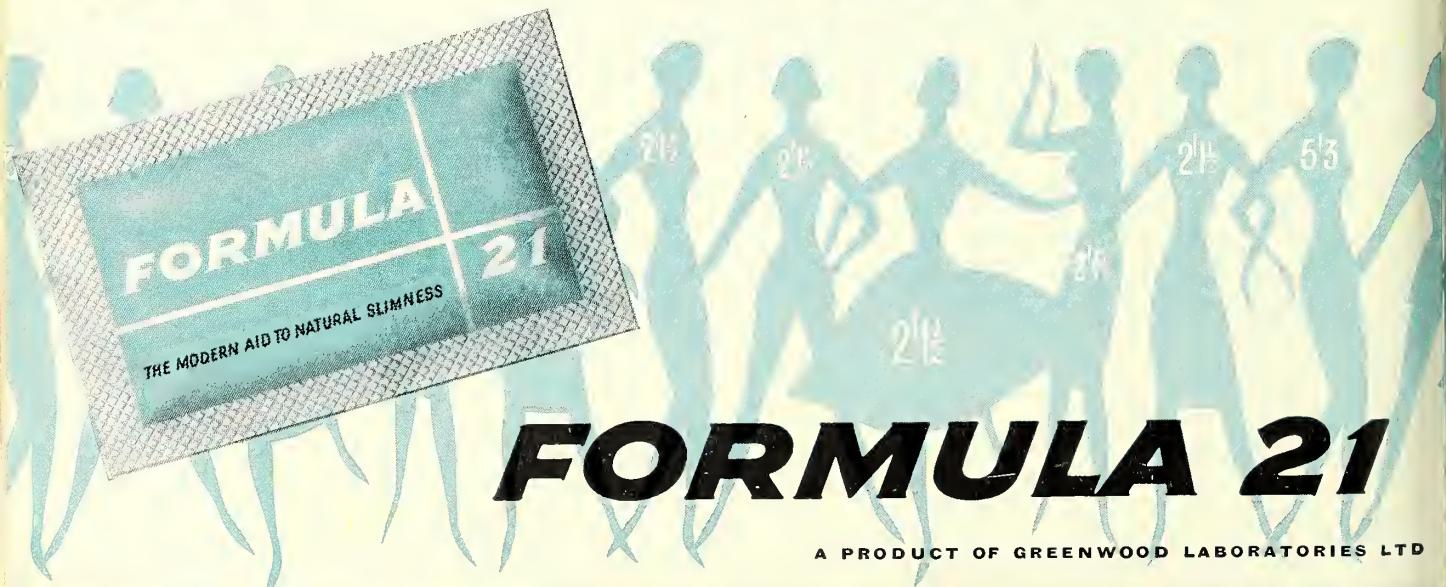
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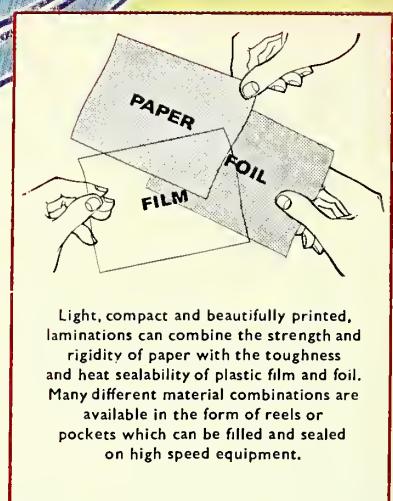
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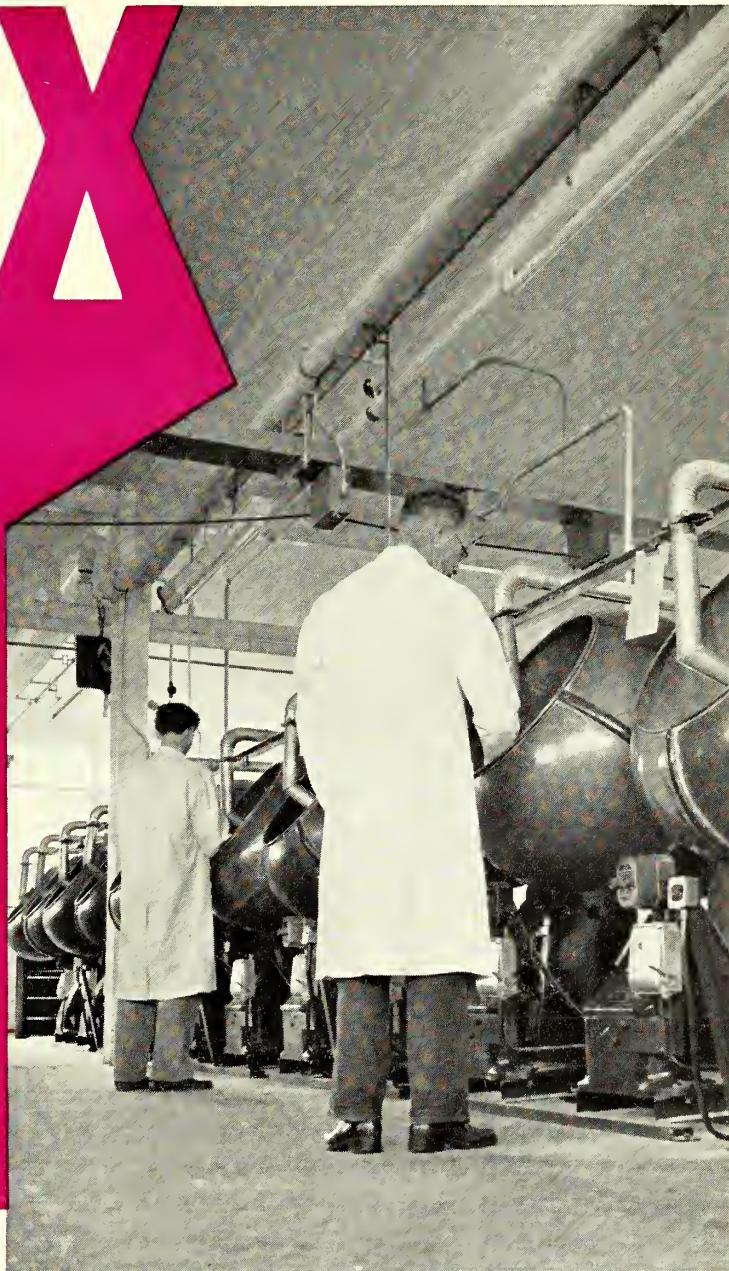
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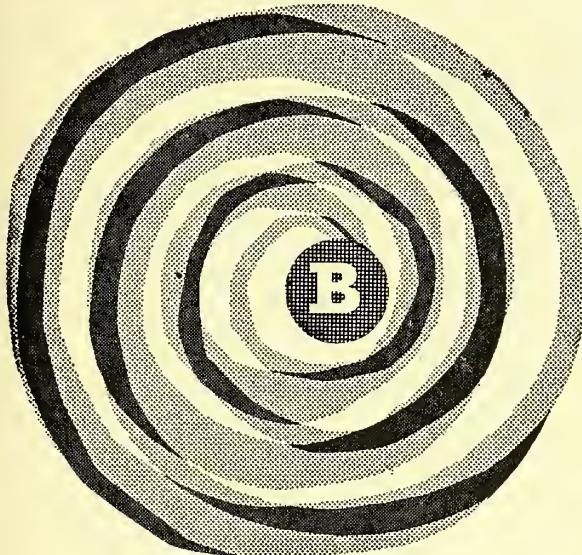
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 173

February 27, 1960

No. 4176

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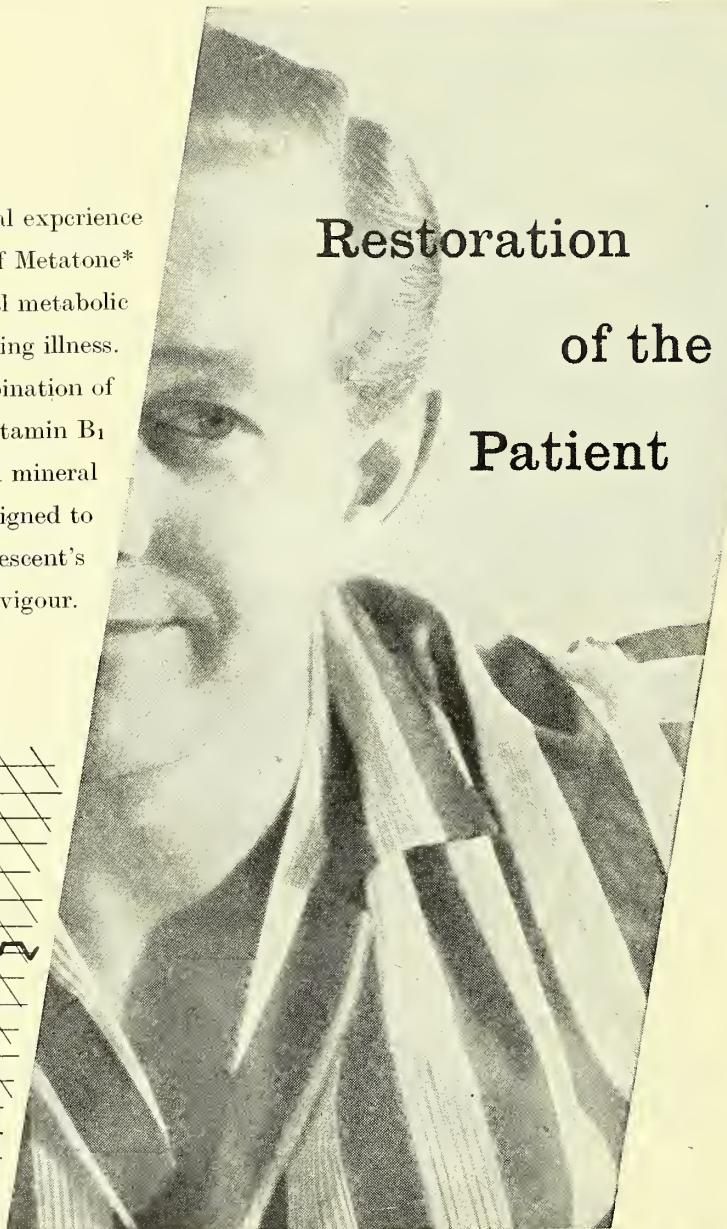
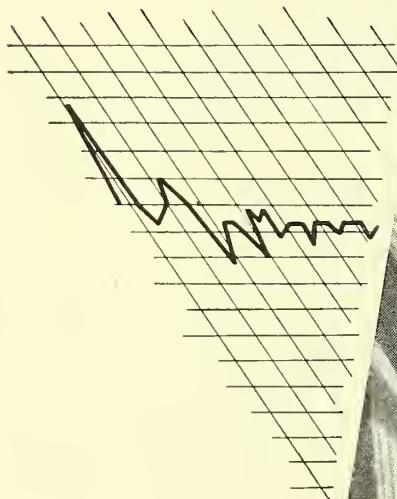
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normal metabolic function
after illness**





The CHEMIST AND DRUGGIST

Volume 173

FEBRUARY 27, 1960

No. 4176

More for the Health Service ESTIMATES FOR 1960-61

AN additional £21 millions has been allowed for the National Health Service in the Civil Vote on account 1960-61 (H.M. Stationery Office, price sixpence) over the previous financial year's total, bringing the total estimate to £584 millions.

The figure does not include the extra payments to doctors and dentists following the Pilkington Report (see p. 227). The following are the estimates for 1960-61 compared with the total net estimates for the current year.

	1960-61	1959-60
	£ millions	£ millions
England and Wales	519.17	501.12
Scotland ...	64.33	61.62
Total ...	583.50	562.74

The vote shows that civil expenditure in 1960-61 is expected to reach £3,218.3 millions, which is £341 millions higher than similar estimates for 1959-60. The Department of Scientific and Industrial Research estimate amounts to £12.7 millions (£10.8 millions in 1959-60), that of the Medical Research Council is £4.26 millions (£3.56 millions, 1959-60) and the estimate for Registration of Restrictive Trading Agreements is £158,280 (£192,090).

Birmingham Analyst

REPORT FOR FOURTH QUARTER 1959

ALL drug samples taken by the Birmingham city analyst in the fourth quarter of 1959 proved satisfactory. However, the analyst comments on a sample submitted as "marmalade" and sold by a chemist. It was not in fact a true preserve, but consisted essentially of a confection of sugar and fruit to which sorbitol and a little gum had been added. "The Food Standards (Preserves) Order, 1953, requires a minimum of 65 per cent. soluble solids for hermetically sealed marmalade, whereas this sample contained an apparent 59.2 per cent. (not all sugar) and could not by virtue of its special composition be expected to conform to the Order. In my opinion, the specimen was not entitled to the description 'marmalade.' More serious was, however, the thoroughly unsatisfactory wording of the label: it consisted of a list of ingredients including vague terms such as 'low sugar content' and 'reducing sugar' not in the correct order of percentage present and, therefore, contrary to the Labelling of Food Order, 1953, which requires specific items to be stated in the correct des-

cending order of amount present. Further, the label carried very dubious claims to slimming and 'regulating.' The presence of some 52 per cent. total sugar compared with the usual 65-70 per cent. can hardly be said to justify the former claim. Correspondence is proceeding with the manufacturers."

Food Colourings

METHODS OF ANALYSIS COLLATED

AT the request of the Ministry of Agriculture, Fisheries and Food, the British Standards Institution has undertaken to prepare specifications for the colouring matter permitted for use in foods by the Colouring Matter in Food Regulations, 1957. The regulations name twenty-nine dyes manufactured from coal tar, together with caramel, cochineal colour, various colouring matters of vegetable origin, and certain pigments and lakes. As a step in the work, the Institution has collected appropriate methods of analysis generally applicable to the water-soluble coal-tar dyes in the permitted list and now presents them in British Standard 3210, to which reference will be made in subsequent British Standards covering the individual colouring matters. Methods are given for determining matter volatile at 135°C, matter insoluble in water, di-isopropyl ether extract, subsidiary dyes, chloride, sulphate, dye content, copper, arsenic and lead. A

limit test for heavy metals (as sulphides) is also included. Copies of the Standard may be obtained from the British Standards Institution, 2 Park Street, London, W.1, price 7s. 6d. each.

Trade with Egypt

U.K. MISSION TO RENEW CONTACTS

BRITAIN and Egypt are to renew trading contacts. The first commercial mission since diplomatic relations were broken at the Suez crisis arrived in Cairo from London on February 23. The Board of Trade stated recently that in response to an invitation from the Government of the United Arab Republic, the British party of businessmen and industrialists would go to Cairo under the auspices of the Advisory Council on Middle East Trade and the Federation of British Industries. In addition to renewing trading contacts, the purpose of the mission is to examine the prospects of increasing trade in both directions. Among the members of the party is Mr. J. C. Hanbury (chairman, Allen & Hanburys, Ltd.).

International Pharmacy

REPORT ON 1959 ZURICH CONGRESS

THE report of the Nineteenth International Congress of the Pharmaceutical Sciences held at Zurich, September 1959, is being edited by the Swiss Pharmaceutical Association, and published during May. It will consist of approximately 450 pages. Those who attended the congress are to receive the report free of charge. Members of the Scientific Section of the International Pharmaceutical Federation, who did not attend, may obtain a copy for Swiss Fr. 25. To other persons the cost will be Swiss Fr. 35. All payments must be made before April 15 to Swiss postal order VIII 39611, XIX, Internationaler Kongress der Pharmazeutischen Wissenschaften Clau- siusstrasse 25, Zurich, 6, Switzerland.



PORTSMOUTH STUDENTS AT GREENFORD: Students from the Portsmouth College of Technology pictured recently at the headquarters of Glaxo Laboratories, Ltd., Greenford, Middlesex. The students toured the pharmacy unit, tablet department, pharmaceutical packing department and streptomycin filling hall.

Advice for Chancellor

INCOME TAX CUT PLEA

THE Federation of British Industries has asked the Chancellor of the Exchequer for major reliefs from income tax and surtax in this year's Budget. Two memoranda have been submitted to the Chancellor by the Federation. One, lodged in January, advocated technical changes in the tax law, and the other, submitted this month, sets out policy changes considered to be essential. Urging a reduction in income tax the Federation said it was "still far too high for a country which is neither at war nor faced with the immediate danger of inflation."

SCOTTISH NEWS

Retailers as Examiners

VIEW OF PRIVY COUNCIL VISITOR

"IT is gratifying to note that retail pharmacists are well represented on the Scottish board of examiners of the Pharmaceutical Society," said Professor Dunlop (Privy Council visitor) in his report on the Society's examinations held in Edinburgh during 1959.

Statistically the examinations did not vary materially from those of previous years, though there was a tendency for the percentage of passes to fall rather than to rise, and the great majority of the successful candidates passed by the narrowest margin, and, added Professor Dunlop, "there continue to be very few really good candidates." The Privy Council visitor attended the examinations on six occasions and, having scrutinised the questions, read a sample of the written answers, saw some of the results of the practical examinations and attended at least one meeting of examiners, he was able to assure the Privy Council as to the fairness of the examination, and that the candidates who had passed had reached an adequate standard.

As in previous years the arrangements for the examinations by the officials of the Society left nothing to be desired, and Professor Dunlop, on his inspections, had always been received with helpfulness and courtesy by the examiners and officials of the Society. He had met most of the examiners and the seniors among them were men of wide experience and of high qualification. "When—as is desirable—more junior examiners have been introduced, they have invariably been associated with a more experienced colleague."

During the year 527 sat for the Qualifying examinations. Of that number 44 per cent. passed, 21.4 per cent. failed, 14.8 per cent. were referred in one subject and 19.7 per cent. in two subjects. Of the 232 candidates at the Intermediate examination, 46.1 per cent. passed, 29.8 per cent. failed and 24.1 per cent. were referred.

Douglas Report

A MEMORANDUM TO DOCTORS

COMMENDING certain recommendations of the Scottish Committee on Prescribing Costs (the Douglas Committee), in a memorandum to doctors, the

Secretary of State for Scotland says that he fully supports general practitioners in their efforts to educate patients against the "bottle of medicine" habit where drugs will serve no useful purpose. The items in the Douglas report to which he referred include the recommendation that practitioners should make the British National Formulary the basis of their prescribing; that "blunderbuss" therapy should be avoided; that practitioners should avoid prescribing proprietary preparations which have been classified by the Cohen committee in categories 5 and 6 (since replaced by categories O and H), and that the quantity prescribed on a prescription be strictly limited to the needs and circumstances of the particular case. Regarding investigations into costly prescribing by doctors, the Secretary of State hopes that those will be undertaken by Local Medical Committees, but where an Executive Council and a Local Medical Committee failed to ensure that persistently high costs were investigated, he would consider appointing a person to investigate cases where the doctor's costs were persistently more than 50 per cent. above the area average. In a letter accompanying the memorandum, the Department of Health of Scotland draws the attention of Executive Councils to the recommendation in the Douglas report regarding consultations between Local Medical and Pharmaceutical Committees, and expresses the hope that the councils will take appropriate action to facilitate such meetings.

IRISH NEWS

THE REPUBLIC

Calendar of Society

AN APPEAL FROM THE PRESIDENT

THE recently published 1960 Calendar of the Pharmaceutical Society of Ireland carries, in addition to the usual information (viz., copies of registers, officers, members of the Council, examiners, syllabuses, balance sheet, etc.), a strong appeal from the president (Mr. H. P. Corrigan) for more support for the Society's Benevolent Fund. The appeal, which is described as "direct and personal to each person engaged in pharmacy," states that at the moment it is not possible for the Benevolent Fund Committee to meet calls from the income derived from the Capital Fund.

"The goal is to have an income sufficient to allow of small pensions for necessitous widows of chemists; to provide the children of deceased chemists with a good education, and to permit, not improvised assistance, but full and regular help for all deserving cases. As a chemist it is your privilege to help. You owe this to yourself and to your profession. The wheel of life gives many turns; perhaps you might owe it to your dependants. In any event, who will say he does not owe it to the virtue of charity." Mr. Corrigan points out that there are hundreds of chemists who do not subscribe to the Fund, and particularly addresses himself to them to co-operate with the Society in building up "what is in fact a form of assurance for your own dependants." Copies of the calendar are available from the Society at 18 Shrewsbury Road, Ballsbridge, Dublin.

THE NORTH

President's "At Home"

AN ENCOURAGING ATTENDANCE

DESPITE heavy falls of snow there was an encouraging attendance at a president's "at home" to members and associates of the Pharmaceutical Society of Northern Ireland in the Society's house, Belfast, on February 15, when the film "Atrial Septal Defect" was shown. The film was preceded by a talk on "Cardiac Surgery" by Mr. T. H. Davison (Pharmaceutical Specialities (May & Baker), Ltd., Dagenham). A vote of thanks to Mr. Davison was proposed by Mr. A. W. Kernahan and seconded by Mr. J. K. McGregor.

Viruses and Disease

A SERIES OF LECTURES

THE Council of the Pharmaceutical Society of Northern Ireland have arranged a series of lectures by Mr. W. G. A. Dick (professor of microbiology, Queen's University, Belfast). The lectures are being held in the Institute of Clinical Science, and began on February 22 with a talk on viruses and human disease. Other lectures will be "Methods of Preventing Virus Infections" (February 29), "Virus Vaccines" (March 7) and "Chemotherapy of Virus Infections," conclusions and discussion (March 14).



MEMBERS OF COUNCIL: Mr. R. J. Power, who was recently co-opted to the Council of the Pharmaceutical Society of Ireland, photographed with some of his new colleagues recently. In the group are Messrs. M. Costello (treasurer), R. J. Semple, Hugh P. Corrigan (president), R. J. Power, G. C. O'Neill, J. J. O'Regan, J. P. O'Donnell and M. F. Broderick.

IRISH BREVITIES**THE NORTH**

ULSTER Chemists' Association is holding, at 73 University Street, Belfast, 7, at 7.30 p.m. on March 16, a whist drive in aid of the Northern Ireland Chemists' Benevolent Fund.

THE REPUBLIC

THE Dundalk factory of Magowan Vickers, Ltd., was completely destroyed by fire on February 15. Damage was estimated at £11,000. Erected eighteen months ago as a branch of the Belfast company, the factory manufactured disinfectants and insecticides.

NEWS IN BRIEF

CHEMISTS at Loughborough, Leics, compiled a list of staff vacancies to issue to young people attending the town's careers exhibition recently.

"SKIN and blister packaging" is the subject of a feature display that is being held at the Packaging Centre, 50 Poland Street, London, W.1, until March 25.

CAMERAS worth about £300 were stolen by a smash-and-grab thief from Jones Chemists (Wirral), Ltd., 34 Pensby Road, Heswall, Ches, on February 11.

ASHTON-under-Lyne General Hospital is recommending to Manchester Regional Hospital Board the building of a new dispensary at an estimated cost of £11,562.

THE Import Duties (General) (No. 1) Order, 1960 (S.I. 1960, No. 252) imposes an import duty of 33½ per cent. *ad valorem* on certain synthetic organic dyestuffs and allied products, as from March 2.

PROFESSOR E. J. Wayne (regius professor of practice of medicine, Glasgow University) has been appointed chairman of the Clinical Research Board of the Medical Research Council in succession to Sir Geoffrey Jefferson, who has retired.

BRADFORD Institute of Technology Pharmacy Students' Association held its fifth annual dinner and dance in Bradford on February 17. Mr. N. D. T. Fergusson (president) welcomed as principal guest Mr. T. Heseltine (a member of Council of the Pharmaceutical Society).

THE Association of British Manufacturers of Agricultural Chemicals is creating a new class of associate membership, open to firms which manufacture crop protection chemicals outside Britain and sell them on a substantial scale in the United Kingdom. Formerly only those who manufactured in the U.K. could be members.

A TRADE information bureau on overseas trading has been instituted by the British Society of Commerce. The bureau undertakes to advise members, and deals with inquiries relating to international trade. Membership is by examination, or proved qualification in a specified field for a period of not less than five years. Associate and student membership is also available. Further information may be obtained from 164 Lord Street, Southport, or 58 Stamford Lodge, London, N.16.

TOPICAL REFLECTIONS

By Xrayser

Co-operative chemists

What are Co-operative chemists? The question is prompted by an exchange in the House of Commons on April 15 (p. 197) in which Mrs. J. Butler asked the Minister of Health if he had studied the communication recently sent to him enclosing a copy of a warning given by the Co-operative Union to Co-operative chemists requesting them to sell certain named central-nervous-system drugs only on a doctor's prescription or on the advice of a qualified chemist. What new branch of pharmacy is this which is apparently required to take its advice in professional matters from a body called the Co-operative Union? They cannot, I thought, be members of the Pharmaceutical Society or they would surely not have been offered a warning differing from the guidance issued by the Pharmaceutical Society in August 1959. Can it be that the expression "Co-operative chemists" used by Mrs. Butler did, in fact, refer to members of the Pharmaceutical Society employed by Co-operative societies? In that case those employees had already received advice from their professional organisation, and the conflicting instructions issued by the Co-operative Union must have placed them in a nice dilemma for, while the Pharmaceutical Society advocated that the drugs should not be supplied except on a prescription, the Co-operative Union added "or on the advice of a qualified chemist." It looked as if Mrs. Butler's intervention in the debate was for the purpose of drawing the Minister's attention to a high-principled statement on the part of the Co-operative Union, and she was given the satisfaction of a surprising reply to the effect that the action taken by the Union was similar to that taken by the Pharmaceutical Society in August 1959. Mrs. Butler referred to public confusion about "pep pills," but confusion does not appear to be a monopoly of the public.

Resale price maintenance

The apparently Government-inspired speculation on resale price maintenance to which you drew attention in a recent editorial (*C. & D.*, February 6, p. 152) is evidently based on the belief that the only way to bring down the cost of consumer goods is to let loose the dogs of a price-cutting war. Pharmacists, in particular, know from bitter experience just what that means. But have the experts, in and out of Government, examined all the alternatives? Two such immediately spring to mind. I have, in common with my colleagues, acted as honorary Father Christmas to purchasers of many brands of tooth-paste. I have given away, to those who did not ask for them, coin of the Realm enclosed with the tube, tooth-brushes, face-cloths, tins of complexion cream and—strangest of all, perhaps—a ball-point pen. (What my reaction would be if I went to a stationer's to buy a ball-point pen and found a tube of tooth-paste thrown in, I can't quite imagine.) But surely an opportunity occurs for helping the financially embarrassed by selling him a tube of tooth-paste, without any free gifts, at a fair price. To contemplate a cut-price retail war in the midst of such plenty is surely Gilbertian. And a Government that sheds tears over the high cost of living brought about by resale price maintenance might dry them quickly on reading the Earl of Dundee's statement in the House of Lords (p. 197) to the effect that purchase tax is yielding nearly £500 millions a year.

Veterinary medicine

The door of the pharmacy burst open the other day, and an enormous Alsatian dog entered, with a young lady on the lead. It was a lively-looking animal, full of high spirits, and it brought with it an air of exuberance which threatened everything in its path. Once order was restored, the young lady asked for a repeat of the vitamin pills she had had the previous week. No, she did not know their name. Neither, it seemed, did she know their shape or colour, for, on taking them home from the pharmacy, the mass of canine strength on the other end of the lead had knocked the little parcel from her hand and eaten it "box and all." And now, in the confines of a smallish shop, there was a vitaminised, bounding dynamo, whose need, if it was to have free expression, was the wide open spaces.

BRANCH EVENTS

GRIMSBY

Tradition and Integrity

PRAISE for the traditions of pharmacy and the integrity of pharmacists was forthcoming from MR. C. E. BUTLER, (Chief Constable of Grimsby) when he proposed the toast to the Grimsby and District Pharmacists' Association at their annual dinner dance on January 28. MR. D. GRIFFIN (president of the Association) replied to the toast and gave some statistical details of prescriptions dispensed under the National Health Service. A toast to the visitors was proposed by Mr. T. A. Parker and Alderman F. G. Gardiner (mayor of Grimsby) replied. The 170 guests included Councillor and Mrs. A. E. Hull (mayor and mayoress of Cleethorpes); Mrs. F. G. Gardiner (mayoress of Grimsby); Dr. A. Milton (secretary, local branch of the British Medical Association).

FINCHLEY

Delegates Briefed

AT a business meeting of the Finchley Branch of the Pharmaceutical Society on February 8, Mr. J. R. Jenkins was elected to the branch committee, replacing Miss H. J. Jones who had left the district. Messrs. A. King (chairman), H. J. Shore (treasurer), and L. David were elected delegates to attend the Branch Representatives' meeting to be held at the Society's headquarters in May. Discussions followed on the resolutions submitted for that meeting and the delegates were able to ascertain the feelings of members, though given the licence to vote independently following their hearing of other points of view. The evening was rounded off by the showing of two films sponsored by Boots, Ltd., and entitled "Pharmacy for You" and "Pharmacy for You with Boots."

LANCASTER

Forced to Buy What Won't Sell

CHEMISTS were the only people who had to buy things they could not sell. Half the items in a pharmacy could only be issued on a doctor's prescription, stated MR. H. CLEGG (chairman, Lancaster, Morecambe District and Westmorland Branch of the Pharmaceutical Society) at the annual dinner and dance on February 3. By way of emphasising that chemists were not overpaid he pointed out that he had to "sell 450 pill prescriptions" to pay for his telephone bill. Mr. Clegg was replying to the toast: "The Chairman and the Local Branch" proposed by MR. F. A. EASTWOOD. The toast "Our Guests and Visitors" was proposed by MR. C. K. BROWN who said the popularity of the function was indicated by the fact that 85 per cent. of those present were guests. They had travelled from Blackpool, Burnley, Carlisle and Preston. Responding COUNCILLOR MRS. C. M. PICKARD, the mayor of Lancaster said the event was one of the highlights of the year. It was a delightful evening. After the dinner members and friends either danced or played whist, and prizes worth over £50 were distributed.

SOUTHAMPTON

A Change of Dormitory

WHEN Mr. G. H. Hughes (president of the Pharmaceutical Society) visited Southampton for the recent annual dinner and dance of the Society's Southampton Branch, he spent the night in a comfortable bed in a hotel, but on the previous occasion he was in Southampton he spent the night in the workhouse! It was not, he explained at the dinner, because he could not have paid for accommodation. But finding himself stranded in the town after landing from a troopship during a strike in the docks at the time of the 1914-18 war, he found that his soldier's uniform did not particularly appeal to hoteliers. Seeking guidance from a policeman, he was directed to the workhouse; and for a soldier accustomed to roughing it at the front in France the idea was not so unattractive. Mr. Hughes told members how pleased he was to see the function supported by members of the allied professions. One of the Society's aims was to foster the co-operative spirit that already existed between pharmacists, physicians, opticians and dentists. ALDERMAN MRS. R. M. STONEHOUSE (mayor of Southampton) paid tribute to the valuable part played by chemists in the smooth operation of the National Health Service. MR. W. E. BASSIL (chairman) who welcomed the guests, said it was the aim of pharmacists to give the town the best possible service.

BRISTOL

Pharmaceutical Education

HOW Bristol had provided the best possible educational facilities for pharmacists, from the middle of the nineteenth century to the present time, when it had one of the best schools of pharmacy in the country, was emphasised at the annual dinner of the Bristol Branch of the Pharmaceutical Society on January 27. MR. F. W. ADAMS (a secretary and the registrar of the Society), in proposing the toast of the branch, said there was ample evidence from the history of the branch that it had always taken a keen interest in education. He felt sure that it was through the initial work of the branch that there was now such a flourishing school of pharmacy. MR. D. A. NORTON (chairman of the branch and principal of the school of pharmacy at the College of Technology), who presided over a gathering of about 200, replied to the toast. He referred to the "very pleasant relations" that had and did exist between the branch and the school. During the past four or five years, he said, there had been considerable progress at the school, and they now had 100 final students—a greater number than at any previous time. Many of those present had seen the laboratories and equipment, and must have been impressed by them. MR. J. R. WARLOW (vice-chairman) proposed "Our Guests," to which the response was made by LIEUTENANT-COL. H. ESSEX LEWIS (Commissioner of the St. John Ambulance Brigade for Bristol).

HUDDERSFIELD

Generous Support

MEMBERS of the Huddersfield Chemists' Association, at their annual dinner and dance on January 20, were given an assurance that the Council of the Pharmaceutical Society had given full and careful consideration to the matter before issuing the statement on the supply of C.N.S. drugs. MR. E. A. BROCKLEHURST (a member of Council), said that critics had stated that the Council acted without the backing of law and without sufficient evidence. "But in making that statement," he continued, "we have been supported by no less a body than the committee which met on drug addiction, who said that these particular drugs should not be sold except on prescription." He appreciated what ALDERMAN J. L. BROOK (mayor of Huddersfield) had said in proposing a toast to the Society, that they were now the dispensers of the National Health Service. There were critics of the expenditure on the Health Service, but they should remember that though the cost of the Service had grown the efficiency had grown even more. "Many people are being kept out of hospitals and are able to do their work because of the effectiveness of modern drugs," added Mr. Brocklehurst. He then went on to congratulate the Huddersfield Branch on their Benevolent Fund contributions having exceeded those of any other industrial branch in the country. Only two branches out of the 140 gave more per head than the Huddersfield Branch.

STOCKPORT

A Varied Programme

AT the February meeting of the Stockport and District Branch of the Pharmaceutical Society, three films were shown. The first, entitled "Blood Grouping," had been made by Imperial Chemical Industries, Ltd., in collaboration with the Medical Research Council's group laboratories at Mile End Hospital, London. It demonstrated the double-check technique recommended for routine blood grouping in the hospital laboratory. A number of microphotograph shots in colour demonstrated the microscopic examination of the results obtained. The other two films, "Surgical Treatment of Mitral Deficiency" and "Thrombo-embolic Diseases with Anticoagulants" were presented by the Geigy Pharmaceutical Co., Ltd. They were introduced by MR. G. PRICE, who outlined present-day concepts of thrombo-embolic diseases and their treatment with anticoagulant drugs. The importance of obtaining the full co-operation of the patient during treatment was stressed. A ladies' supper evening held during January was well attended. MR. D. P. ALLEN (incoming chairman) presented MISS A. GOODISON with her past-chairman's badge of office. After supper a number of members showed colour films they had exposed recently. MR. J. MOORE showed shots taken during his stay in Rhodesia and of the Zambezi river, Victoria Falls and Kariba Dam.

"C & D" CARTOONIST AT



TRADE NOTES

Discontinued.—Pfizer, Ltd., Folkestone, Kent, announce that, from March 1, all sizes of Cortril snuff capsules are being discontinued.

Now Perfumed.—The Yaxa deodorant stick, distributors of which are Thos. Christy & Co., Ltd., North Lane, Aldershot, Hants, now incorporates a "cool Cologne" perfume.

Blackcurrant Syrup.—Barnett & Foster, Ltd., Queensbridge Road, London, E.8, are processors of Niagara brand blackcurrant syrup. They invite orders through wholesalers.

Awarded Hygiene Certificate.—Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks, announce that the certificate of the Royal Institute of Public Health and Hygiene has been granted to their Tek tooth-brushes.

Extraction from Raw Materials.—Stafford Allen & Sons, Ltd., Wharf Road, London, N.1, undertake the extraction of customers' botanical raw materials, both with aqueous and with organic solvents.

New Fine Chemicals.—Haffer & Smith, Ltd., New Era Works, Purley Way, Croydon, Surrey, invite inquiries from companies wishing to have new fine chemical products made or seeking alternative sources.

Lubricated Protectives.—The Durex Gossamer protectives of London Rubber Co., Ltd., Hall Lane, London, E.4, described by the manufacturers as "super-sensitive," are lubricated with a "special non-wet, non-messy" lubricant.

Antibiotics Table.—The C. & D., Centenary feature "Organism-Infection—Antibiotic" (tables showing the disease associated with a particular organism and the antibiotics found most effective in dealing with it) are now available mounted on stout board and strung for hanging. The price is 7s. 6d. per set (three cards).

Battery Prices Reduced.—The Ever Ready Co. (Great Britain), Ltd., Hercules Place, Holloway, London, N.7, announce price reductions, effective from March 7, in their dry batteries. The reductions are being given considerable publicity in the Press and in television advertising.

Additional Sizes.—Brook, Parker & Co., Ltd., Horton Road, Bradford, 7, announce the addition to their range of "ethical" products of a new pack of a carton containing three tins of 100 tablets each of Broprin tablets; also of 4-oz. and 8-oz. dispensing packs of Terpacol and Tussin.

Services in Manufacture.—Pharmaceutical Supplies, Ltd., Green Lane, Hounslow, Middlesex, offer manufacturing and packing facilities in a field in which they have a considerable experience—the manufacture and packaging of tablets, powders, liquids and ointments.

Purchase-tax Guarantee.—Smith & Nephew, Ltd., Welwyn Garden City, Herts, announce that, to safeguard the profits of retail chemists against possible loss from a purchase-tax rate reduction in the coming Budget, they

are offering to accept the chemist's risk up to a 15 per cent. reduction in the present rate of tax. Within that limit they will credit the dealer with the tax difference on products coming within the guarantee and which have been purchased from the company and invoiced between February 15 and Budget date.

A Shampoo Powder from France.—Kisby dry-shampoo powder is being imported from France by Roberts Chemists (Bond Street), Ltd., 76 New Bond Street, London, W.1, sole distributors in the United Kingdom and Republic of Ireland. The powder is presented in polythene tubes of two sizes (four and twenty shampoos respectively). In use, the powder is simply sprinkled on the hair and brushed out in ten minutes.

Sun-glasses for 1960.—Attention is drawn in this issue to the 1960 range of Bartex sun-glasses offered by Alfred Franks & Bartlett Co., Ltd., 226 Gray's Inn Road, London, W.C.1. The range includes standard, Superstyle (high-fashion) and de-luxe (with long-life Duplex hinges and 14-carat gold-plated frame) models. All models incorporate the new Bartex superlens, which is 1.6 mm. thick, featherweight, shatter-proof and non-inflammable. Special display stands are available.

Mother and Baby Book.—Available for sale at ninepence per copy, the "Mother and Baby Book" issued by Glaxo Laboratories Ltd., Greenford, Middlesex, is a well illustrated guide to motherhood and is divided into two main sections. The first, on tinted paper, tells "A Young Mother's Story" of her pregnancy and afterwards, and the second "The Ostermilk and Farex Baby Book" is a repository of factual information for the expectant and nursing mother. A ten-page section of the 156-p. book (page size 9 x 6 in.) gives a choice of names, and a comprehensive index is included in the booklet.

Display Pack.—Jabley creme bloc beauty treatment is a lather base in which are incorporated skin foods,



PROGRESS: Retaining the "dressmaker's dummy" motif of their earlier showcard (left), Greenwood Laboratories, Ltd., 84 Albert Street, London, N.W.1, have given it new "vital statistics" in their new showcard (right) which also depicts the new sachet pack (paragraph above) for Formula 21 slimming aid.



beauty creams and perfume. In a five-minute treatment warm water is used to cream the bloc on to the skin. It is then massaged with the finger tips for 30 seconds, clearing the pores. The bloc is available in three blends for normal, dry and oily skins. Recently the bloc was made available by Jabley, Ltd., 145 Turnpike Lane, London, N.8, in a six-tablet counter display carton with a stand-up lid. An instructions-for-use leaflet is included in each wrapping.

Bonus Offers

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1. Dabitoff. Three bottles free with order for three doz. March 1 to April 1.

J. & J. COLMAN, LTD., Carrow Works, Norwich. Robinson's lemon barley water. Six bottles free with order for 6 doz. of any of Robinson's soft drinks (lemon or orange barley water, orange smash, orange, lemon or grapefruit squash and unsweetened Sicilian lemon juice). February 29 till April 23.

ROBERTS CHEMISTS (BOND STREET), LTD. Kisby dry-shampoo powder. Thirteen to doz. Introductory offer.

INFORMATION WANTED

The Editor would appreciate information about the following:

Teego disinfectant fluid



NEW PRODUCTS

For Pain With Spasm.—Riker Laboratories, Ltd., Loughborough, Leics, announce the introduction on March 1 of a new speciality, Norflex, for the relief of pain associated with skeletal muscle spasm. Norflex tablets each contain 100 mgm. of orphenadrine citrate. They are available in bottles of 100 and 500.

Chloroquine Sulphate Tablets.—B.M. Laboratories, Ltd., 80 Buckingham Gate, London, S.W.1, are making available white uncoated tablets, divided on one side only, each containing 200 mgm. of chloroquine sulphate, B.P., under the brand name Bemasulph. The packs are containers of twenty-five, 100 and 500.

Prednisolone Trimethylacetate.—CIBA Laboratories, Ltd., Horsham, Sussex, are introducing on March 1 a new speciality Vecortenol (prednisolone trimethylacetate) with a powerful anti-inflammatory effect of exceptional duration. The compound can replace other corticosteroids to advantage in such conditions as bovine ketosis, mastitis and agalactia in sows, dermatoses in small animals, and arthritis. Vecortenol is understood to minimise the frequency of injection and thus to save time, besides being more convenient. It is available as a microcrystalline suspension in rubber-capped vials each containing 100 mgm. in 4 mils or 250 mgm. in 10 mils.

Four-in-one Tissue Pack.—Velvet Crepe Paper Co., Ltd., Alperton, Middlesex, are marketing their coloured



handkerchief tissues in a "four-in-one" pack containing tissues in pink, blue, yellow, and white, so arranged that a tissue of any colour may be individually selected. The container is a attractive and colourful carton opening along a hinge to reveal two sides each presenting an upper and lower "window" through each of which tissues of one colour may be extracted. It has a neat carrying handle, but when opened lies flat. Should a small quantity of tissues be required for carrying in the handbag they may be taken out by opening the end flaps. The pack appeals for its novelty, usefulness and colourful appearance.

Seven-day Sachet Pack.—Greenwood Laboratories, Ltd., 84 Albert Street, London, N.W.1, have introduced a seven-day sachet pack of their Formula 21 slimming aid. Each sachet contains the equivalent of one teaspoonful.

EXPANSION PLANS

MARCHON PRODUCTS, LTD., a member of the international Albright & Wilson group of companies, are proceeding with plans for the manufacture of detergent raw materials in Northern Italy by their wholly owned subsidiary Marchon Italiana. The factory site is at Castiglione delle Stiviere, approximately eighty miles east of Milan. It is expected to be completed in 1960.

FORMATION of a new company, Dow Chemica Italiana, S.p.A., and construction of a multimillion dollar manufacturing plant in Italy, were announced by Mr. C. B. Branch (president, Dow Chemical International, Ltd., S.A.), recently. The wholly-owned Dow subsidiary is to open its marketing office next month in Milan to assist in better servicing of customers. Plans for the manufacturing plant site are not as yet finalised.

BUILDING extensions recently completed at the Newhaven, Sussex, works of Vacco, Ltd., have almost doubled the effective factory area. As a result of the new building, plant layouts are being improved. The plastics department has been extended, and the company has recently installed the latest type of fully automatic injection moulding equipment. During the past year, the number employed by Vacco, Ltd., at Newhaven has increased by 50 per cent.

A NEW factory for the Argentine subsidiary of Glaxo Laboratories, Ltd., is nearing completion in the industrial section of the Munro area of Buenos Aires. The new premises, which replace the original factory in another district of the city, occupy about 10 acres, and are to consist of a two-story office block, laboratory and manufacturing buildings. The laboratory block, which will also house sterile areas and a canteen, is a single-story building. The general manufacturing block will also accommodate the medical centre and a nursery for young children of mothers on the staff. The company, like others in Argentina, will have its own generating plant.

MAKERS' ACTIVITIES

Ten Show Prizes.—At the South Holland Horticultural Association's forced flower show recently Geest Industries, Ltd., Spalding, Lincs, who market the Geest branded bulbs in cartons, won the A. Goodchild challenge trophy for their stand, first prize for the best stand, two first prizes for tulips, a first prize and the W. T. Jay, Ltd., challenge cup for daffodils, and four second prizes—in all ten of twenty-eight prizes awarded.

Sales Conference.—Cullingford of Chelsea (Castle Soaps of Cambridge, Ltd.), Kirkby, Liverpool, held their annual sales conference in Southport on February 11, 12 and 13. It was attended by the company's representatives and by Mr. Mitelmann (managing director, Les Parfums Jacques Fath, Paris, France; and by Messrs. Max Steidle (owner of the Biokosma Co., Ebnal-Kappel, Switzerland, and Kurt Strelbel, Switzerland).

DEATHS

BAMFORTH.—On February 11, Mr. Norman Bamforth, M.P.S., Bee-stones, Tower Hill, Williton, nr. Taunton, Somerset. Mr. Bamforth, who qualified during 1915, became managing director of H. W. Herbert, Ltd., 41 High Street, Egham, Surrey, retiring from that post about four years ago to become deputy chairman of the company. Whilst living in Surrey he became a governor of both Strode's Grammar School and Sir William Perkins's School, Chertsey. He was on the management committee of Holloway Sanatorium, Virginia Water, and the Egham Cottage Hospital. He was a keen Rotarian, being a founder and past president of Egham Rotary Club. He served for a period on Egham Council. In Masonic circles he was a Past Master of the Waterfall Lodge, Province of Surrey. When he moved to Somerset eleven years ago he became a member of the governing bodies of schools and hospitals there, and he widened his interests in old people's welfare, becoming chairman of the house committee of a hospital for the aged sick in Williton, and chairman of Williton Good Neighbours Club, a club concerned with the welfare of old folk.

BELL.—On January 28, Mr. John Bell, M.P.S., 10 Greendale, Green Avenue, Mill Hill, London, N.W.7. Mr. Bell qualified during 1912.

BROOKES.—On February 6, Mr. Joshua Brookes, M.P.S., 10A Church Road, Southbourne, Bournemouth, Hants. Mr. Brookes qualified during 1920.

BURGESS.—On February 21, Mr. Frederick William Burgess, M.P.S., 365 Ditchling Road, Brighton, aged eighty-seven.

HARDING.—On February 3, Miss Beryl Constance Harding, M.P.S., 22 Rosslyn Avenue, Barnes, London, S.W.13. Miss Harding qualified during 1945.

HARRIS.—On February 16, Mr. Charles Ewart Harris, M.P.S., 16 Dean Street, Liskeard, Cornwall. Mr. Harris had celebrated his seventy-fifth birthday only a week earlier. A native of Tregony, Truro, he established a pharmacy in Liskeard after the 1914-18 war, later selling the business to Boots, Ltd. Mr. Harris, who was severely gassed during hostilities in the first World War, lost his sight twenty-three years ago.

HOBSON.—On February 5, Mr. Leslie Walter Hobson, M.P.S., 53 Garden Lane, Chester. Mr. Hobson qualified during 1932.

JAMES.—Suddenly, at Cardiff Royal Infirmary on February 19, Mr. William Morgan James, M.P.S., 4 Dorchester Avenue, Penylan, Cardiff. Mr. James qualified during 1910.

JEWELL.—Recently, Mr. Frederick Albert Jewell, M.P.S., 30 Ashdown Street, London, N.W.5. Mr. Jewell qualified during 1923.

LISHMAN.—On February 7, Mr. Arthur Lishman, M.P.S., 32 Market Place, Wetherby, Yorks, aged eighty-one.

OLIVER.—Recently, after a long illness, Miss Margaret Oliver, M.P.S., 84 Salisbury Avenue, Warden Hill Estate, Cheltenham, Glos. Miss Oliver qualified during 1942 and was subsequently employed by Timothy Whites & Taylors, Ltd., at the company's branches in Houghton, Horden and West Hartlepool. Later she went to Wingate, Durham, before being appointed to a managerial post at Cheltenham.

REYNOLDS.—On February 13, Mr. Harry Reynolds, M.P.S., 15 West Avenue, Worthing, Sussex. Mr. Reynolds qualified in 1904.

SMITH.—On February 18, Mr. Howard G. Smith, sales promotion manager, Horlick, Ltd., Slough, Bucks. Mr. Smith was aged fifty-six and had been with the company for twenty-two years.

VICKERS.—On February 16, Mr. Joseph Ernest Vickers, M.P.S., 49 Pembroke Crescent, Hove, Sussex. Mr. Vickers qualified during 1906.

PERSONALITIES

MR. R. C. HANNANT, Ph.C., M.P.S., Station Pharmacy, Springfield Road, Gorleston-on-Sea, has been promoted Commander (Brother) of the Order of St. John.

MR. D. H. THURGUR, M.P.S., who is in business at 5 East Street, Crewkerne, Somerset, was recently appointed chairman of Crewkerne chamber of trade and commerce.

DR. K. JONES, who has been carrying out research at the Welsh Plant Breeding Station, has been appointed principal scientific officer at the Royal Botanic Gardens, Kew. Dr. Jones's appointment is considered as the first step in implementing a policy designed to exploit the scientific potentials of the 45,000 living plant varieties and species at Kew. The international reputation of the Gardens is based upon plant taxonomy and economic botany, but Dr. Jones's research will be concerned with the subject of cytogenetics.

MR. T. CORNISH, F.P.S., is contesting the Abbey ward of Bath at the municipal elections in May. Mr. Cornish, who qualified in 1926, is managing director of Mills & Mills, Ltd., chemists, George Street, Bath. For a number of years he has served as a co-opted member of the City Health Committee and has also served on the Mental Health and Sanitary and General Purposes committees. A member of the Executive Council and of the Mendip Hospital Management Committee, he is also chairman of the Bath Society for the Blind.

MR. F. V. BUTTERFIELD, M.P.S., Harrogate, Yorks, celebrates his ninety-seventh birthday on February 28. A native of Thirsk, Mr. Butterfield managed pharmacies in London and Leeds before establishing at Station Bridge, Harrogate, in 1893 the pharmaceutical business now known as Butterfield & Son. The pharmacy is under the management of his son Mr. E. R. Butterfield, M.P.S., but Mr. F. V. Butterfield spends an hour or so each morning behind the counter, returning

in the afternoon to stay until closing time. He refuses at present to contemplate retirement.

BRIGADIER SIR JOHN BOYD, O.B.E., F.R.S., who is at present visiting Kenya (see below), became director of the Wellcome Laboratories of Tropical Medicine on his retirement from the Royal Army Medical Corps in 1946 and held that post until 1955.

During that decade he was a member of the Colonial Medical Research Committee and of the Army Pathology Committee, honorary secretary of the Royal Society of Tropical Medicine and Hygiene, and subsequently the Society's president. In 1956 he was appointed one of the Wellcome Trustees, a position he still holds. Among Brigadier Sir John Boyd's publications are scientific papers on the pathology of tropical diseases and on bacterial viruses.



OVERSEAS VISITS

MR. "BOBBY" WALKER (associate director, Aspro-Nicholas) is leaving London to visit overseas subsidiaries in Bombay, Nairobi and Durban. In his capacity as general manager of home and overseas divisions, Mr. Walker is to discuss general overseas trading, to increase sales and also to extend the field for trading in those areas. Mr. Walker returns to England on March 24.

MR. DONALD A. HAM (export sales manager, Ortho Pharmaceutical, Ltd.), is to undertake an extensive tour of Mediterranean and Middle East countries in the near future. Mr. Ham starts his itinerary by flying to Athens on April 3. From there his principal points of call are in Turkey, Cyprus, Lebanon, Persia, Iraq, Kuwait, Qatar, Bahrein, Aden, Ethiopia, Sudan, Egypt and Italy, returning on May 15.

MR. J. R. BOWDEN (sales director, Crookes Laboratories, Ltd.), has left the United Kingdom on a round-the-world tour of inspection of the company's offices in India, the Far East and Australasia. In Australia he will be investigating the possibilities of enlarging the company's present business activities. During his two month's tour he will be making some executive appointments en-route.

BRIGADIER SIR JOHN BOYD, O.B.E., F.R.S., and Lady Boyd left on February 22 to visit Kenya for the opening on February 26, by the Governor of Kenya, of the Wellcome Institute for Research on Foot-and-Mouth Disease. The institute has been financed by a grant from the Wellcome Trust, of which Sir John is a member. While in Kenya Sir John will open the Wellcome Medical Library, another gift of the Wellcome Trust. The library is attached to the Colony's Medical Research Centre in Nairobi.

COMPANY NEWS

Previous year's figures in parentheses

BOOTS PURE DRUG CO., LTD.—Interim dividend for the half year ending March 31, is 3 per cent.

GILLETTE CO. (U.S.A.)—Earnings in 1959, \$31,151,623 (\$27,565,182), equal to \$3.34 (\$2.97) a share. Sales, \$209,276,635 (\$193,865,095).

F. W. HAMPSHIRE & CO., LTD.—Group trading profits increased from £133,830 to £166,153 in the year ended December 5, 1959, and the dividend is raised by 10 per cent. to 30 per cent.

F. W. BERK & CO., LTD.—In view of recent Press reports the board announce that no offer has been made to them and that no negotiations are in progress for the purchase of the shares of the company.

E. R. SQUIBB & SONS, LTD.—The chairman and board announce that at the recent annual meeting of the company Mr. Harry Orr, whose sudden death was reported last week (C. & D., February 20, p. 196) had been appointed a director of the company, the announcement of which was forestalled by his untimely death.

W. FLETCHER (CHEMISTS), LTD.—Mr. F. R. Reber, was appointed receiver and manager of the company by the debenture holder on February 17. It is his intention for the present to continue the company's business whilst making an investigation into its affairs. Statements should be directed to him: c/o W. Fletcher (Chemists), Ltd., 5 Tachbrook Street, London, S.W.1.

MONSANTO CHEMICALS, LTD.—A second interim dividend on the company's ordinary shares of 10 per cent. is declared, making the total dividend 15 per cent. on the ordinary capital in respect of 1959 (13½ per cent. for 1958). Net sales, £18,427,505 (£15,426,633); net income, before taxes, £2,265,635 (£1,318,949); taxation, £929,211 (£661,526). Direct export business accounted for 37 per cent. of total sales, a contribution of £6,877,980 to turnover.

ALBRIGHT & WILSON, LTD., and A. BOAKE ROBERTS & CO. (HOLDING), LTD.—At an extraordinary general meeting of Albright & Wilson, Ltd., on February 17, the resolution for the increase in authorised capital to provide the additional shares required to implement the offers for the A. Boake Roberts & Co. (Holding), Ltd. (C. & D., January 30, p. 110), share capital was passed. At the same time a resolution was passed increasing the permitted number of directors from twelve to fifteen.—Over 90 per cent. of holders have accepted the Albright & Wilson offers.

THE BRITISH DRUG HOUSES, LTD.—As mentioned briefly in last week's CHEMIST AND DRUGGIST (p. 196), the board recommended shareholders not to accept the take-over offer made by Fisons, Ltd. An increased dividend and a scrip issue are forecast. Mr. G. C. R. Eley (chairman) said on February 17 that he had no knowledge of any other take-over bid for the company. The directors state that they did not invite the offer and, on the con-

trary, the company expanded actively in 1958. In fact, they add, the bid came at a time when "we are on the threshold of considerable expansion." No external help was needed to achieve that expansion other than that which had been assured by its bankers.

The 1959 audit has not yet been carried out, but group profits, before tax, are estimated at not less than £600,000 (£551,000), to which will be added £60,000 released tax provision. If that proves correct the directors will recommend that the dividend, payable in July, shall be doubled to 24 per cent., which would be covered more than one and a half times without the tax credit. In addition, they would propose a one-for-two scrip issue. As far as can be judged the directors should be able to distribute a similar total sum in dividends in respect of 1960 and would hope to increase the distribution in respect of 1961.

The company purchased for about £700,000 the wholesale chemist businesses of J. R. Gibbs, Ltd., and of I. Rowland James, Ltd., in mid-1959.

The wholesale department in London achieved a big increase in sales at a rising rate and the board estimates that such sales will increase by at least another 30 per cent. in 1960. The department is now yielding worth-while profits which should continue to rise.

Apart from such developments some £120,000 of the first stage of a £750,000 expansion of the laboratory chemical side of the business has just been completed. The development has already begun to contribute to profits and, adds the board, should yield substantial profits in 1961 and onwards.

ILFORD, LTD. — Business started the past financial year at less than the normal rate but quickly righted itself until, at the end of the year sales were running at a record level, says Mr. J. P. Philippe (chairman) in his statement accompanying the returns for year ended October 31, 1959. With regard to the future, shareholders are told the range of products continues to grow. Preparations have been made to introduce very shortly a much wider selection of cameras. Meanwhile the board is confident that, working hand in hand with Imperial Chemical Industries, Ltd., the company will continue to expand and enlarge its share of the rapidly increasing world trade in photographic products. No decision has so far been taken as to whether the company should embark on the manufacture of photographic film and paper on the Continent or whether it will still be possible to compete satisfactorily by the export there of British-made stocks. A large proportion of research work during the year was concerned with the development of improved and new colour products for the coming year. After nearly thirty years' service with the company, Mr. W. E. H. Metcalfe has retired from the board following medical advice and Sir Frederic Hooper is not offering himself for re-election in view of his increasing responsibilities elsewhere. Messrs. F. O'S. W. Hutchinson and G. A. Jones were appointed to the board recently. For accounts see *C. & D.*, February 3, p. 170.

BUSINESS CHANGES

WARD, CASSON, LTD., has been acquired by Lewis & Burrows, Ltd., 146 Holborn, London, E.C.1.

PERIHEL, LTD. (member of the K.G. Holdings Group of companies) is shortly moving to factory premises at 44 Brunel Road, London, W.3, occupied by their associated company, W.S. Electronics, Ltd. (telephone: Shepherds Bush 0333) which has been extended to provide modern and attractive accommodation for Messrs. Perihel.

Appointments

ABBEY PARFUMERIE CO., LTD., 7 Oxford Circus Avenue, London, W.1, have appointed Mr. R. J. Darell their representative for certain parts of London and the Channel Islands.

ARMOUR PHARMACEUTICAL CO., LTD., Hampden Park, Eastbourne, Sussex, have appointed Mr. D. F. Williams their representative for pharmaceutical products in Warwickshire, Staffordshire, Shropshire and Worcestershire and Mr. A. R. White representative for surgical sutures in the Midland area.

LEGAL REPORTS

Passing Off

MR. JUSTICE CROSS in the High Court on February 16 approved the settlement of a claim by Roberts' Croupline, Ltd., that British Chemonautic Products, Ltd., should be restrained from infringing the trade-mark Fam-lax and from "passing-off" laxative tablets not of the plaintiffs' manufacture, in Arab-speaking countries. The parties had agreed terms, and the motion was treated as the trial of the action. The alleged infringement of the trade-mark Fam-lax was on labels bearing the Arabic transliteration of the word. The defendants undertook not to infringe plaintiffs' trade-mark or to pass off laxative tablets not of plaintiffs' manufacture in predominantly Arabic-speaking countries in the Middle East by using the Arabic form of Fam-lax, and not to sell in those countries laxative tablets not of plaintiffs' manufacture.

ture or such merchandise in rectangular shape. Counsel for defendants agreed to the making of the order.

"Just a Favour"

ARNOLD Freeman, proprietor of a drug store at 90 West India Dock Road, London, E.14, was ordered to pay £3 3s. costs at Thames magistrates' court recently when he appeared to answer two summons in connection with a sale that contravened the provisions of the Pharmacy and Poisons Act, 1933. Mr. Freeman, who pleaded guilty, was granted an absolute discharge on each of the summons. He was summoned for selling as a person not authorised to sell poisons, compound codeine tablets; and for not labelling the container with his name and address. Mr. A. C. Castle, prosecuting for the Pharmaceutical Society, said that Mr. Freeman was the owner of a business described as a drug store: he had no pharmaceutical qualification but sold "patent medicines," cosmetics, etc. On October 13, 1959, a representative of the Society called at his shop and asked for some codeine tablets, which he supplied, charging her 1s. 6d. He said he knew he should not sell them but was letting her have them "because I like the look of you." Mr. Freeman, besides running the shop, also acted as unqualified dispenser for a doctor who had a surgery at the same premises. Mr. Castle said the Society had taken out the summons because it wanted to bring home to Mr. Freeman that he must not sell poisons to members of the public. Defending counsel said that Mr. Freeman was aware of the regulations and frankly admitted selling the codeine tablets to the woman. The tablets had been bought from a chemist for Mr. Freeman's own use; he had never had them on sale as part of his stock-in-trade. "Liking the look of the lady," he had sold them "at cost price." Mr. Freeman took over the shop in 1951. It had been run by his father for nearly half a century. The magistrate told Mr. Freeman "I'll accept, and it's extremely important, that this was just doing someone a favour and not engaging in illegal trade in any real meaning of the term."

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

Safeguards Agreed

DR. D. JOHNSON asked the Minister of Health what undertaking was given by the British Medical Association, in making its representations to him last year about the desirability of supplying drugs under the National Health Service to private patients, to co-operate in the administration of safeguards against over-prescribing on the part of private doctors. MR. DEREK WALKER-SMITH in a written reply on February 15 stated that in discussions with the Ministry on the possibility of making the kind of financial and administrative arrangements that would be required if it should be decided as a matter of policy to introduce legislation, the Association agreed to safeguards on similar lines to those applying under the National Health Service.

Agricultural Sprays

In a written answer to MR. P. HOLMAN on February 18, MR. J. B. GODBER (Parliamentary Secretary, Ministry of Agriculture, Fisheries and Food) stated that nine people had been appointed to serve on the group to examine the use of toxic sprays in agriculture, under the chairmanship of Professor H. G. Sanders, Chief Scientific Adviser on Agriculture to the Ministry. They were:

Dr. H. R. Barnell, chief scientific adviser in food to the Ministry; Dr. J. M. Barnes, director of the toxicology research unit of the Medical Research Council; Professor A. R. Clapham, Professor of Botany at Sheffield University; Dr. R. A. E. Galley, director of the Tropical Products Institute at the Colonial Office; Mr. C. O. Harvey, of the Department of Scientific and Industrial Research; Dr. Donald Hunter, physician to London Hospital and part-time physician-in-charge of the Department for Research in Industrial Medicine; Mr. W. C. Moore, director of the plant pathology laboratory of the Ministry; Professor W. L. M. Perry, Professor of Materia Medica at Edinburgh University; and Mr. G. G. Samuel, of the scientific staff (headquarters) of the Agricultural Research Council.

Warble Fly

MR. G. S. DE FREITAS asked the Minister of Agriculture what encouragement he was giving to the use of the systemic drug Etrolene or the systemic wash Co-Ral in preventing warble fly infestation in cattle. MR. GODBER in a written answer on February 18 said the insecticides had given encouraging results in field trials and the Minister was most interested in their development. Although the compounds may safely be used under the prescribed conditions they were toxic and "we must await further experience of their widespread use."

Clinical Trials

MR. DEREK WALKER-SMITH (Minister of Health) on February 22 told MR. G. DARLING that he was considering a recommendation by the Committee on the Cost of Prescribing that arrangements for testing drugs should be improved, but limiting the supply of certain drugs against medical prescriptions was a matter for the Home Secretary. MR. DARLING suggested it was about time the confusion between two departments came to an end and "that in this important matter the health authority dealing with it should be in one department." Would the Minister consider suggesting that no new drugs should come on the market until they had been approved by some authority? MR. DEREK WALKER-SMITH said there was no confusion; the various departments were working together effectively and harmoniously. DR. E. SUMMERSKILL asked if the Minister would take one effective step and inform the drug houses which were "hawking their high-priced drugs from doctor to doctor at the expense of the taxpayer, that all drugs should have had a clinical trial in this country." MR. DEREK WALKER-SMITH referred to a clinical trials committee recommended by the Hincliffe Committee and stated that consultations about that were well

advanced, and he hoped to make a statement shortly.

C.N.S. Drugs

MR. N. DODDS asked questions about Preludin, Persomnia, Relaxa, Menopax, and Miltown. He said ". . . even the chemists are in a proper mess about the statements made in this House and . . . the list given by the Home Secretary means nothing to the general public." MR. DEREK WALKER-SMITH denied any one was in a mess and said the preparations mentioned all contained substances which the Home Secretary intended to restrict to supply by prescription.

N.H.S. Spectacles

COMMANDER PURSEY called attention on February 23 to the supply of National Health Service spectacles and suggested that some opticians failed to offer the complete services available under the Service. The available range of frames was not shown to patients and certainly not the six coloured frames provided by the trade. Patients were bluffed into having private frames at high fees. MR. B. JANNER was certain that, if the abuse were as general as indicated, the number of complaints received in official circles would be vastly more than they were at present. He was disturbed that Commander Pursey had not submitted his complaint to the Executive Council of the area concerned and to the other bodies set up under the Act to deal with complaints. MISS E. PITTS (Parliamentary Secretary, Ministry of Health) said that it might be that some opticians employed high-pressure salesmanship methods, and she did not claim that the ophthalmic profession was free from black sheep, but it was wrong to apply a sweeping condemnation to members of a profession who deserved their share of credit for the success of the Supplementary Ophthalmic Services. There were over 5 million sight tests a year and nearly 5 million pairs of glasses dispensed. The cases needing investigation were about twenty-five a year. A fresh review of the range of frames available under the Service was being made.

Medicine Legislation

Asked by MR. F. NOEL-BAKER if he would specify the organisations from which the Inter-Departmental Working Party on legislation concerning medicines would receive evidence, MR. DEREK WALKER-SMITH in a written answer on February 22 listed the following:

Advertising Association; Agricultural Research Council; Associated Manufacturers of Veterinary and Agricultural Products; Association of British Chemical Manufacturers; Association of British Pharmaceutical Industry; Association of County Councils in Scotland; Association of Municipal Corporations; Association of Public Analysts; Association of Welsh Executive Councils; British Dental Association; British Medical Association; British Veterinary Association; British Pharmacopoeia Commission; Central Midwives Board; Central N.H.S. (Chemist Contractors') Committee; College of General Practitioners; Company Chemist Association; Convention of Royal Burghs;

Co-operative Union; Counties of Cities Association; Executive Councils Association (England); General Dental Council; General Medical Council; General Nursing Council; Government Chemist; Guild of Public Pharmacists; Institute of Hospital Administrators; London County Council; Medical Panel of the Advertising Inquiry Committee; Medical Research Council; Metropolitan Boroughs Standing Joint Committee; Ministry of Agriculture, Fisheries and Food; Ministry of Labour and National Service; Pharmaceutical Society of Great Britain; Pharmaceutical Standing Committee (Scotland); Poisons Board; Proprietary Association of Great Britain; Royal College of Midwives; Royal College of Nursing; Royal College of Obstetricians and Gynaecologists; Royal Faculty of Physicians and Surgeons (Glasgow); Royal College of Physicians; Royal College of Physicians and Surgeons (Edinburgh); Royal College of Surgeons; Royal College of Surgeons (Edinburgh); Royal College of Veterinary Surgeons; Royal Institute of Chemistry; Rural District Councils Association; Scottish Executive Councils Association; Society of Apothecaries; Society of Herbalists; Society of Medical Officers of Health (England); Society of Medical Officers of Health (Scotland); and the Urban District Councils Association.

"Patent" Medicine Claims

MR. F. NOEL-BAKER asked the President of the Board of Trade what steps he proposed to take to protect the public against misleading statements by the manufacturers of a well-known "patent" medicine, details of which had been forwarded to him by the Advertising Inquiry Committee. MR. J. RODGERS (Parliamentary Secretary, Board of Trade) in a written reply on February 22 stated that the Minister of Health could see no ground for action under the legislation for which he was responsible. The President of the Board of Trade had examined the possibility of action under the Merchandise Marks Acts, but was advised that the information available to him did not disclose any ground on which any such proceedings could be contemplated.

Purchase Tax

MR. NABARRO asked the Chancellor of the Exchequer whether he was aware that toilet preparations which were in any way perfumed were liable to purchase tax at 50 per cent., even if they were used against insect bites or as deodorants, whilst if not perfumed they were taxed at 25 per cent. or in some cases not at all; and whether, in view of the damage thus caused to the efficiency and export trade of the industry, he would reduce the tax on perfumed toilet preparations at an early date. MR. D. HEATHCOAT AMORY (Chancellor of the Exchequer) in a written reply on February 23 stated the questioner was misinformed, but in any case he was not prepared to anticipate his Budget statement.

The House of Commons standing committee began to review the Payment of Wages Bill on February 24. The Bill proposes to enable a worker to be paid by cheque, postal order, or money order, if a written request is made by the worker to his employer.

SIR ALEXANDER FLECK RETIRES

From "lab" boy to chairman of Imperial Chemical Industries, Ltd.

SIR Alexander Fleck, K.B.E., D.Sc., LL.D., F.R.S., who retires from the chairmanship of Imperial Chemical Industries, Ltd., on February 29, has held that office since June 1953. Like Lord McGowan and Mr. John Rogers, his two immediate predecessors as I.C.I.'s chairman, who are also Glasgow men, Sir Alexander Fleck climbed the ladder from the lowest rung.

He started his working life as a "lab" boy at Glasgow University, where, after three years, his keenness for continuing education enabled him to become a full-time student. By great determination he gained a chemistry degree at the age of twenty-two and an appointment on the University's teaching staff as an assistant in the physical chemistry department. By 1913 he had his own research laboratory as physical chemist to the Glasgow and West of Scotland Radium Committee. His work there was concerned with radiological research on cancer. He gained his doctorate for a thesis based on work done in the University chemical laboratory entitled "Some Chapters on the Chemistry of the Radio Elements."

The vast and high-speed expansion of the British chemical industry during the first world war drew Sir Alexander into the Castner-Kellner Alkali Co., Ltd., which became in 1920 a subsidiary company of Brunner, Mond & Co., Ltd. The I.C.I. merger in 1926 gave his talents wider scope, and by 1931 he had risen to be managing director of I.C.I.'s general chemicals division. Six years later he was appointed chairman of I.C.I. (Fertiliser and Synthetic Products), Ltd., the predecessor of the Billingham division of I.C.I.

A keen traveller, Sir Alexander has visited the company's interests in Canada, the United States, India, Pakistan, Ceylon, South Africa, Australia, New Zealand, Mexico, Malaya, Hong Kong, Japan, South America and many European countries.

Contributions to Science

His contributions to science as well as industry have been widely recognised. In 1953 he received an honorary LL.D. from his Alma Mater, Glasgow University. In the same year the University of Durham, with which he has close connections, made him an honorary D.Sc., to be followed in 1956 by Oxford University, and, in November 1957, by London University. In the same month he was made an Honorary Fellow of the Manchester College of Science and Technology. In 1958 he received two more honorary degrees: in May, a D.Sc. from Nottingham University and, in October, an Sc.D. at Dublin. Sir Alexander's scientific work received further recognition when, in 1955, he was elected a Fellow of the Royal Society. A year later he was presented with the Messel medal, the highest award to be conferred by the Society of Chemical Industry. In 1957 the Royal Society of Edinburgh elected him to an Honorary Fellowship, a

distinction limited by statute to twenty-two members of the British Commonwealth who have made notable contributions to science or literature. In 1958 Sir Alexander was president of the British Association for the Advancement of Science and, in the course of the Association's annual meeting in Glasgow, he was elected an Honorary Fellow of the Royal Faculty of Physicians and Surgeons of Glasgow. He is also a trustee of the new Churchill College at Cambridge.

His wide knowledge of industrial as well as of human affairs has made him an ideal chairman of various Government-appointed committees. The Fleck report on the coal industry aroused great interest when it was published in February 1955, and many of its recommendations have since been implemented. In November 1957 he was made chairman of three committees charged with the investigation of matters arising from the accident at the Windscale establishment of the United Kingdom Atomic Energy Authority, and shortly afterwards he was appointed to the chairmanship of a committee nominated by the Government to inquire into the British fishing industry. In September 1958 the Minister of Power appointed Sir Alexander as chairman of his Scientific Advisory



Council to advise the Minister on the scientific aspects of his statutory duties.

Outside industry, Sir Alexander's interests are few and simple. His country home is in the Tees Valley. He prefers reading — usually history — to any other entertainment. He still enjoys a good deal of walking and is also keen on gardening and motor yachting, preferably along the rocky coasts of Western Scotland. His large circle of friends will wish him many years of retirement to enjoy those activities.

DOCTORS' AND DENTISTS' INCOMES

Higher pay proposed by Commission

RETROSPECTIVE payments to general practitioners in the National Health Service and doctors and dentists in the hospital service totalling £20 millions and annual payments of about £12 millions were recommended by the Royal Commission on Doctors' and Dentists' Remuneration in its recent report (H.M. Stationery Office, 15s.).

The Commission was appointed in March 1957 under the chairmanship of Sir Harry Pilkington. It recommended that a general practitioner should receive an average income of £2,425 from official sources only; the average income from those sources in 1956 was £1,975. A sum of £500,000 should be set aside annually for making special payments to family doctors of "outstanding ability," if the profession and the Ministry of Health agree on a scheme for its distribution. For whole-time consultants the Commission suggested a scale beginning at £2,550 rising to £3,900 and ranging for other grades from £2,000 to £2,700 for senior hospital medical and dental officers down to £675 and £825 for house officers.

In view of the quite substantial salaries now earned by members of other professions well before the age of thirty, including young science graduates, the report recommended a substantial increase for junior hospital staff and for trainee assistants. All the new rates recommended should operate for three years from January 1 without further increase.

Retrospective payments are recommended amounting to £11 millions to

general practitioners, and £9 millions for hospital doctors and dentists, to cover the period from March 1957 to December 1959.

The average dental practitioner should earn £2,500 a year from the General Dental Services. The Commission considered that that figure had been achieved and no immediate change in rates for items of service was considered necessary. The Commission did, however, recognise that many dentists had worked unusually long hours to achieve their earnings.

Another recommendation was that a review body with an eminent chairman and independent members should be set up to advise the Prime Minister on future levels of remuneration. That body would be similar to the Advisory Committee on the Higher Civil Service (the Coleraine Committee). The Commission did not consider that any attempt should be made to keep the remuneration of doctors and dentists closely in step with every change in the earnings of comparable groups or with every change in the cost of living, but the aim should be to keep remuneration stable for periods of at least three years if possible.

The Commission carried out a survey of earnings in other professions and many of the details were recorded in tabular form in the appendices to the report. Appendix E provided details of remuneration paid to members of various "connected occupations" in the National Health Service during the year 1956-57 including hospital pharmacists.

PHENOL PRICES INQUIRY

Restrictive Practices Court considers further evidence

A DESCRIPTION of the tar distillation process was given to the Restrictive Practices Court on February 16 when the Court continued its inquiry into the price agreement between members of the Phenol Producers' Association. Mr. J. B. Vickers (chairman and joint-managing director, Yorkshire Tar Distillers, Ltd., and a director of Synthetic Chemicals, Ltd.) was the first witness for the Association. He pointed out that costs varied according to the phenolic content of the crude tar acids. The acids were refined in order to produce phenol, orthocresol and xylenol.

The prices per lb. of the products were: Pure orthocresol, 1s. 2d.; meta-para-cresol, 10d. to 1s. 2d.; xylenol, 6d. to 8d.; cresylic acid, 7d. to 8d.; orthocresol mixture, 8½d. to 9½d.; high boiling tar acids, 5d. to 5½d.

There was, he said, a naphthalene shortage of about 9,000 tons a year. Production was between 55,000 and 65,000 tons a year. Cross examined by Mr. T. G. Roche, Q.C. (for the Registrar of Restrictive Trade Agreements) Mr. Vickers said that the total income from phenol was about 6 per cent. of the income derived from the treatment of tar.

MR. ROCHE: "It is just a question of economics. So long as the price of phenol is fairly high it pays you to get it out; and if natural phenol became unsaleable, you could still go on producing naphthalene?"

MR. VICKERS: "That is perfectly true, but I do not know how long it would be before we found ourselves in the bankruptcy court."

MR. ROCHE: "It depends on the willingness of buyers of naphthalene and so on to bear the extra 6 per cent. which you would lose if phenol became unsaleable?"

MR. VICKERS: "Yes, of course."

Continuing his examination the next day, Mr. Roche suggested that the decisive factor in deciding whether or not to reduce the price would be to keep it as high as possible; but if it was kept so high that phenol could be imported at a lower price it would be fatal.

MR. VICKERS: "As business men, we should not do that."

MR. ROCHE: "So that really has been the decisive factor throughout—to keep the price of phenol as high as possible, provided that people could not buy on the world market and pay 33½ per cent. duty and still get it cheaper?"

MR. VICKERS denied that suggestion. He agreed that the bulk of phenol available on the world market was synthetic. It was the policy of the producers in the Phenol Association to regard it as their first duty to provide raw material for the home market.

On February 18, Mr. Vickers said that Yorkshire Tar Distillers, Ltd., now made more than twice as much phenol as it had ever done before. Mr. Roche commented that it was the Registrar's case that the industry was exceptionally prosperous.

The next witness was Mr. R. W. Lowe (chairman of the Phenol Producers' Association since 1949 and chairman and managing director of Charles Lowe & Co. (Manchester), Ltd.). He said that members of the Association undertook to adhere to the price agreement but were free to leave the Association without giving notice. Asked by Mr. B. J. M. MacKenna, Q.C., for the Association if the Association considered the interests of its customers in its policy, Mr. Lowe replied there was no question about that. Having a stable price in the home market had enabled his company to develop in a competitive export market

in the sure knowledge that it was not going to be undercut. Mr. Lowe estimated that during the past year Imperial Chemical Industries, Ltd., had sold about 2,000 tons of phenol below the Association price. If the Association agreement continued, he did not think there would be any danger through I.C.I. being outside it. If price fixing ceased, the small producers might be the first to reduce their prices because they had neither the storage capacity nor the finance to carry stocks. Mr. Low did not think that any synthetic producer would close down. When asked what was the main objection to a free market, he said the question must be looked at from a consumer's point of view. Stability of prices was a basis for encouraging the further use of phenol or of any other raw material.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily himself responsible for the views expressed.

Apothecaries' Hall Dispensers

SIR.—We are attempting to start an employment agency for our members. I shall be pleased to hear from any of your readers who are seeking the services of an Apothecaries' Hall dispenser, and I will endeavour to put them into touch with suitable candidates for the post. There will be no charge for the service, but contributions towards postal expenses will be appreciated.

ELFRIEDA LINTON, *Secretary,*
Apothecaries' Hall Dispensers
Association,
65 Oak Road, Crumpsall,
Manchester, 8

Defence Expenditure

SIR.—I note that the Council of the Society is proposing to send to each member of the Society a copy of the recent statement by the Council putting up a defence of its action in sending out the circular of advice in October 1959. I would suggest that the Society's funds should not bear the cost of sending out such a letter. The original statement should in my own view never have been issued, as the matters dealt with were not, strictly speaking, within the ambit of the Society's functions. However, they were so closely allied to the business of the Society that it would be difficult to argue that the cost was an improper charge against the Society's funds. This proposed second letter is in a different category. It is purely a personal defence by members of the Council of their action authorising the Society to send the previous letter, and as such the cost should be borne by themselves. I appreciate that, in relation to the spending of the Society's funds, there is no person with powers analogous to those of the district auditors in relation to local-authority spending, and accordingly there is no method other than the ordinary courts to enforce a disallowance of the expenditure. Nevertheless, I trust the Council will recall that we are a professional Society and will act accordingly.

C. LONSDALE,
Stalbridge, Dorset

Poisons Status of Adrenaline

SIR.—Your editorial hint (*C. & D.*, February 20, p. 203) that adrenaline in ointments and asthma inhalants will come within the new orbit of poisons control is timely. If the new Poisons Rules as at present formulated become law, then adrenaline preparations, containing as they do an active principle of the suprarenal gland, will pass from private pharmaceutical sale to prescription. Since estrogenic and androgenic substances for external use are excluded from control as S.4 poisons, it is incomprehensible that the less toxic adrenaline solutions for external use should be included. Even with the highly dangerous anaesthetics such as esterified amino alcohols (for example benzocaine, amethocaine, butocaine, etc.), pharmacists are allowed open sale where the content of the listed compound is below 10 per cent. One could illustrate further with the permitted dilutions of strychnine, hyoscine, atropine and many poisonous alkaloids, where the pharmacist is permitted to sell, otherwise than on prescription, in reduced strengths. Our pharmaceutical authorities should remember that a pharmacist is a professional man and not an unskilled trader. Forensic pharmacy has become a distinct feature of his qualification, and pharmacology an integral part of his scientific study. His profession and training are towards public sale of many medicinal preparations without the fuss or necessity of medical prescriptions. And in that sphere the pharmacist is entitled to a measure of protection from the Society which he helps to maintain. To deprive him of the open sale of simple adrenaline ointments and solutions is to legislate for legislation's sake. The authorities should rectify this anomaly forthwith, otherwise almost all pharmacies in the country will lose substantial sums of money when the Poisons Rules become law. Their adrenaline preparations might as well be thrown on the fire for all the hope there will be of a doctor's prescription releasing them.

G. WRIGHT TAYLOR,
Bradford, Yorks

Now!



Bartex introduce an entirely NEW range of Sun glasses

with the
AMAZING SUPERLENS

Bartex now introduce a range of sun glasses with a fabulous new lens - the Bartex Superlens! It's wonderful value for money . . . a splendid sales tonic!

All models in the superb new 1960 range of Bartex sun glasses now have the Bartex Superlens. It is a lens of far higher quality and optical accuracy than ever before available at anything like this low price! Compare the new Bartex Superlens with any lens in your shop. It meets up with the most exacting standards! . . . benefiting from extensive research in today's highly-developed lens-making industry.

To introduce the new Bartex range, a heavier and more powerful advertising campaign than for any other manufacturer of sun glasses. Turn over now and see this magnificent new Bartex range. Read about the promotion that will help *you* sell more and better quality sun glasses than ever before.

*PULL OUT - KEEP FOR REFERENCE

THE NEW Bartex RANGE OF SUN GLASSES FOR 1960

Bartex Standard

with the new Superlens

This, the most popular Bartex model, offers remarkable value-for-money. Not only has it got the outstanding Bartex Superlens, but the whole design and construction is of a higher standard than ever before achieved at such a popular price.



ADIES' STYLES · Lens—smoke, blue, rose, green, rosal

MEN'S STYLE · Lens—smoke, green, rosal

GILT FRAMES

7/11

Bartex Superstyle

with the new Superlens

Bartex sun glasses are famous for their styling. Continuing the exciting Superstyle range here are new Bartex models combining high fashion with all the outstanding advantages of the new 1960 range. Eye-catching colours for both lens and frames make these an irresistible choice for women.



2 LADIES' STYLES · ANODISED FRAMES—red, turquoise, gold, lilac

Lens—smoke, blue, rose, green, rosal

In special display box holding 12 pairs

12/9

**BARTEX
SUPERLENS
SUN GLASSES**

THE
SENS
OF

REMEMBER - YEAR AFTER YEAR BARTEX CONSISTE

INTRODUCING THE NEW BARTEX Superlens

All Bartex models will now be fitted with the outstanding new Bartex Superlens. This is a specially developed lens of outstanding quality, made to the high '6 Base' standard.

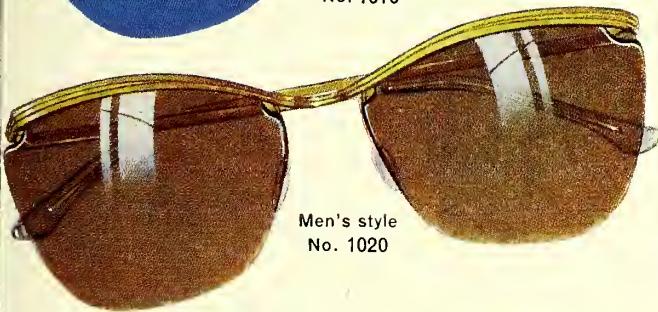
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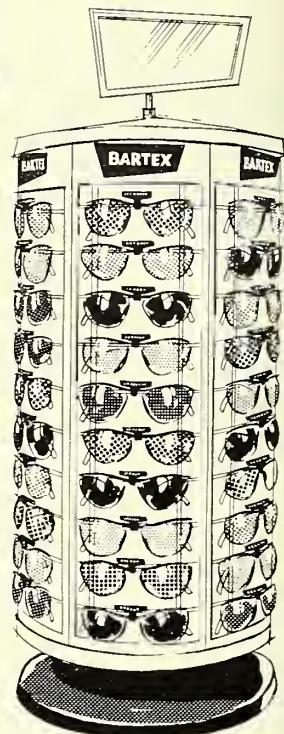
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ESTABLISHED 1859

Published weekly at
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TELEGRAMS: "CHEMUS ESTRAND, LONDON"

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Hospital Patient Costs

OVER 100 pages of tabulated data relating to the average cost of maintaining a patient in hospitals under the National Health Service are contained in Hospital Costing Returns for the year ended March 31, 1959, Volume II (H.M. Stationery Office, price 32s. 6d.). The figures are for all National Health Service Hospitals in England and Wales other than about 250 large hospitals whose detailed departmental costs were published in November 1959 (C. & D., November 28, 1959, p. 467). These latest returns show for each hospital the net average in-patient cost per week and, except for hospitals where patients remain for long periods, the net average in-patient cost per case. In addition the principal direct expenses, such as salaries and wages and materials, of individual departments are expressed in terms of cost per unit of work performed.

Taking as an example the first hospital for which details are provided we find that, in the Sunderland Royal Infirmary, the "total net in-patient cost per week" was £25 5s. 1d., of which £1 8s. 4d. was for drugs and dressings. For Dunston Hill, Gateshead, Hospital the respective figures are £20 3s. 5d. and 18s. 6d. Further perusal of the data provided yields the information that the average total net in-patient cost per week for hospitals type I acute, 101-300 beds, in the Newcastle region was £23 4s. 8d. The comparative figure for England and Wales was £24 16s. 4d. Unfortunately average figures for drugs and dressings are not given, whether for the regional area or countrywise.

Most of the figures in the tables will no doubt have been prepared and checked by mechanical means, and it seems that for little, if any, extra effort averages could have been included in respect of all the departmental costings. As we have had cause to remark on previous occasions, statistics must be accurate and complete in order to be useful. The publication under discussion may satisfy the first demand but it is wanting in the second.

The Analysis of Running Costs of Hospitals, year ended March 31, issued by the Department of Health for Scotland (H.M. Stationery Office, price 10s. 6d.) shows the unit costs of the 392 hospitals in Scotland. Unfortunately the system of departmental costing has, as yet, been introduced into a very limited number of hospitals and is only expected to be extended to 130 hospitals during 1959-60. We are aware that the organisation and development of the detailed costing of hospital procedures is in the early and transitory stages but progress does appear to be rather slow.

Overseas Trade in January

THE month of January is usually a good month for United Kingdom exports of drugs, medicines and medicinal preparations, and last month was no exception. At £3.81 millions their value was the highest for a year, falling just short of the previous record of £3.86 millions established in January 1959. Of the items contributing to the total penicillin exports were also at their highest level for a year, while other antibiotics, though lower than in December 1959, were considerably above the average monthly rate for that year. So also was aspirin, the value of which (£134,392) was the highest for any month since June 1959. Quinine is no longer given a separate heading in the official trade statistics, but the value of hormone and gland preparations is now included. In January shipments of those drugs were valued at £110,366, against £63,654 in January 1959.

As usual Australia was the best single market for prepared medicines, shipments to the Commonwealth being valued at £309,873. Exports to the United States of America, however, provided the surprise of the month, for at £246,836 (almost double the value of January 1959) they displaced Nigerian purchases by a narrow margin from their usual second place. Exports to the Irish Republic were, at £151,148, slightly less than in the previous January.

EXPORTS						VALUE
Drugs, medicines, medicinal preparations						£
(total) ...	...	...	...	...	...	3,816,258
Vitamins	...	...	...	...	...	210,943
Penicillin salts	...	...	...	...	...	121,819
Penicillin injections	...	...	...	...	...	55,285
Penicillin tablets, ointments, etc.	...	...	...	...	...	68,298
Antibiotics other than penicillin	...	...	...	...	...	632,176
Alkaloids and derivatives	...	...	...	...	...	143,812
Aspirin	...	...	...	...	...	127,894
Antihistam'nes	...	...	...	...	...	56,517
Antipaludics	...	...	...	...	...	79,601
Barbiturates	...	...	...	...	...	38,615
Liver extracts	...	...	...	...	...	15,036
Ointments and liniments	...	...	...	...	...	125,383
Insulin	...	...	...	...	...	40,984
Sulphonamides	...	...	...	...	...	66,832
Proprietary medicines	...	...	...	...	...	1,088,284
Other medicines, unclassified	...	...	...	...	...	784,994
Glycerin	...	...	...	...	...	29,749
Acetone	...	...	...	...	...	10,573
Citric acid	...	...	...	...	...	54,814
Salicylates	...	...	...	...	...	15,129
Perfumery and toilet preparations						
Lipstick, face powder, etc.	...	...	...	...	...	263,489
Dentifrices	...	...	...	...	...	208,708
Toilet soaps	...	...	...	...	...	211,232
Synthetic detergents	...	...	...	...	...	523,916
IMPORTS						£
Vitamins	...	...	...	...	...	39,202
Antibiotics	...	...	...	...	...	175,740
Alkaloids	...	...	...	...	...	64,898
Proprietary medicines	...	...	...	...	...	83,110
Unclassified medicines	...	...	...	...	...	99,757
Borax	...	...	...	...	...	57,307
Iodine	...	...	...	...	...	5,232
Menthol	...	...	...	...	...	21,797
Essential oils						
Bergamot	...	...	...	...	...	24,506
Citronella	...	...	...	...	...	11,251
Clove	...	...	...	...	...	19,249
Geranium	...	...	...	...	...	33,052
Lavender	...	...	...	...	...	30,279
Lemon	...	...	...	...	...	44,493
Orange	...	...	...	...	...	25,359
Peppermint	...	...	...	...	...	101,278
Unclassified	...	...	...	...	...	200,810

FRIEDRICH HOFFMANN (1660-1742)

"Greatest of the Iatrochemists"

T. H. BISHOP, F.R.S.A.

THE name of Friedrich Hoffmann, the tercentenary of whose birth occurred on February 19, is perpetuated by the once popular preparation, "Hoffmann's anodyne," a familiar pharmaceutical eponym known to many who have little or no knowledge of the man or his work. Born at Halle, where his family had practised medicine for more than two centuries, Hoffmann attended the chemical lectures of Gasper Cramer at Erfurt before studying medicine at Jena, where he graduated M.D. in 1681. During his student days he suffered from hypochondria, a condition which rapidly improved when he began to take more outdoor exercise and formed the habit of combining his meditations with walking.

During a visit to England Hoffmann formed a friendship with Robert Boyle, and the two corresponded on matters of mutual interest. In 1682 Hoffmann began to deliver a course of lectures on chemistry, and published a work entitled "De Cinnabari Antimonii." He practised medicine for two years at Minden, but his real life's work began with the foundation in 1693 of Halle University and his acceptance of the chair of medicine there. He was invited to draw up the statutes of the medical faculty, and urged the appointment of Georg Ernst Stahl, who was to become the chief exponent of the phlogiston theory. Hoffmann later held the chair of natural philosophy.

Although his connexion with the university of his native town ended only with his death, there were intervals when his fame as a physician led to absences, some of them prolonged, when he was summoned to the sickbeds of royal patients at various European courts. He attended the Emperor Charles VI and the Empress, and was created count palatine after successfully treating the Prince of Schwarzenberg during a dangerous illness. While at the court of Frederick William I, King of Prussia, Hoffmann's dignified remonstrance at the brutal rudeness of that boor secured him better treatment than was usually accorded those attached to the court. The king evidently appreciated Hoffmann's skill and integrity, for he made him a privy councillor and presented him with his portrait set in diamonds.

Those exalted personages occupied but a small part in Hoffmann's long and active life, however, and his fame rests upon a vast amount of work in which he made shrewd observations on the causation and treatment of many disorders. His medico-botanical dissertations dealt with a variety of substances including sugar, cloves, balsam of Peru, yarrow, and manna. He recommended the leaves of *Veronica officinalis* as preferable to the tea of China.

The handicaps to scientific work at that time are exemplified by the fact that in a period of twenty-four years Hoffmann was allowed only twenty bodies for dissection, nevertheless Sir Clifford Allbutt described him as the first to perceive that "pathology is an aspect of physiology." The same authority regarded Hoffmann as the greatest of the iatrochemists. Hoffmann believed that life depends on the normal tension of the solid parts of the body, and those parts, according to his theory, were not the ducts, as the Greek Soranus had taught, but the fibres. Hoffmann conceived the muscles as being maintained in a state of partial tonic contraction by means of a mysterious, ether-like fluid acting through the nervous system, and thought that similar processes kept the humours of the body in motion. Arguing from that premise, he ascribed acute disease to a spasmodic condition and chronic disease to atony. Humoral changes and faulty excretion were other causes of disease. For the treatment of those conditions he prescribed sedatives, tonics, alteratives and evacuants respectively. His "elixir viscerale," an elixir of orange, was a popular stomachic.

Hoffmann's writings cover a wide range, and include papers on diseases from metals (1695), travel for health (1701), transmutation of disease (1716), monoxide poisoning (1716), sickness from cold drinks (1721), medicated baths (1722), senility as a disease (1731), etc. Such homely subjects as pumpernickel (1695) and snuff (1700) provided him with further material for investigation, and he was influential in reviving the popularity of mineral baths. He discovered the medicinal properties of the spring at Seidlitz, Bohemia, due to the combination of magnesium and sodium sulphate. The modern "Seidlitz powder," of course, is of quite different composition, resembling Hoffmann's original preparation in name only. He was the first to give a clear account of chlorosis as a clinical entity, and was among the first to provide adequate descriptions of rubella, appendicitis, and convulsive asthmas with dropsy. His observations on the incidence of local epidemics and meteorological conditions were of value, as were his works on personal hygiene, physiology, pathology, and medical ethics.

Enjoying a European reputation by reason of his learning and ability as a teacher, writer, and clinician, Hoffmann was esteemed for his urbanity and courtesy. Apparently he had little faith in apothecaries, for he is quoted as saying:—

"The apothecary should know that an acid and an alkali, when brought into contact, will effervesce. It will suffice if he know the effect, although, he may be ignorant of the cause."

His anodyne, which he called "liquet anodynus mineralis Hoffmannii," he described as the composed dulcified spirit of vitriol and the aromatic oil which came over after it. The proportions and the process he employed were not divulged. That famous remedy, the *spiritus aetheris compositus* of the British Pharmaceutical Codex, was admitted to the sixth edition of the *Pharmacopoeia Londinensis*, 1788. It has kept alive the name of a great iatrochemist, whose *Opera omnia physico-medica* (nine volumes, 1740-53) embodies a wealth of medical observation and forms a remarkable contribution to the study of disease and the remedies available for its treatment. Hoffmann died on October 4, 1742.

MEDICAL ABSTRACTS

TRETAMINE AND INOPERABLE LUNG CANCER

FOLLOWING the successful use of tretamine (T.E.M.) (2:4:6-triethyleneimino-5-triazine, triethylene melamine) in the inhibition of experimental tumours; Jack, Doyle, and Palejwalla (*Lancet*, 1960, **1**, 206), in a preliminary communication, report favourably upon the use of the drug in the treatment of inoperable lung cancer. Of forty-three patients treated, thirty showed improvement and of these, ten cases showed improvement as "very marked to complete regression." In four cases, the original clinical picture of which are described, the authors report that chest x-rays returned to normal. Treatment of those cases consisted of a total dosage of 15-30 mgm. given intravenously upon one or two occasions. Severe nausea followed for twenty-four hours but within three days improvement was noted and after five days chest x-rays showed shrinkage of the tumour mass. Shrinkage occurred for three weeks and after a month radiological examination showed a normal chest picture. Six of the markedly improved patients are classified separately; three are symptom free but three died within twelve days of treatment due to haemorrhage of necrosed tumours. White blood cell counts show a drop, reaching the lowest level on the twelfth day and the platelet-count is also lowered. The authors suggest the drug should be tried in inoperable undifferentiated lung cancer by giving a single dose of 20-30 mgm. (0.35 mgm. per kilo) intravenously. The period of remission and the effect of a second course of treatment is unknown. The use of the drug with surgical excision also requires investigation.

“FACE-LIFT” FOR A PHARMACY

A Hastings business with a novel facade

NOVEL features are immediately apparent in the new façade of the Shurzine Pharmacy, Ltd., 12 Wellington Place, Hastings, Sussex. The 1935 shop front which has been replaced consisted of central double mahogany and glass doors between two sets of conventional enclosed shop windows. The door and part of the windows on each side were set back 4 ft. from the pavement to make a forecourt. The whole shop front and fixture cases on the inside of it occupied a depth of 7 ft. from the pavement.

The main consideration in the new front was the setting back of the whole façade 2 ft. from the pavement, to provide a small covered viewing forecourt (deep enough to house an automatic weighing machine). The size of the forecourt was controlled by the internal planning because it was desired to add the other 5 ft. of depth from the pavement, previously occupied by the old shop front, to the interior of the premises thereby increasing considerably the sales area.

Three Basic Sections

Basically, the new front is divided into three sections: plate-glass window with entrance; main display group; and fascia panel. The main window provides the passer-by with an uninterrupted view of the interior sales and display units, the cosmetic department being immediately in the window. In contrast, the group display point for all departments (other than cosmetic) consists of slender cubicles divided by glass shelving—ideally suited for the delicate display of



small goods, up to the size of hot-water bottles, vacuum flasks or cameras. Symbolically, poised above the group display, is an illuminated carboy, encased in glass. At the same level as the carboy and spanning the whole front, is the main fascia of grey-white mosaic finish (carried through to the back of the carboy case); with projecting red plastic letters.

The entrance, 5 ft. 6 in. wide, has two armour plate-glass doors, one 3 ft. wide and the other 2½ ft. Either or both doors may be locked open if desired. The composition is completed by two projecting side nibs which line up with a high-level soffit spanning the whole front. The construction throughout is of wood with polished brass trim, with a predominant red-black-white colour scheme.

Cosmetic Sales “Rocketed”

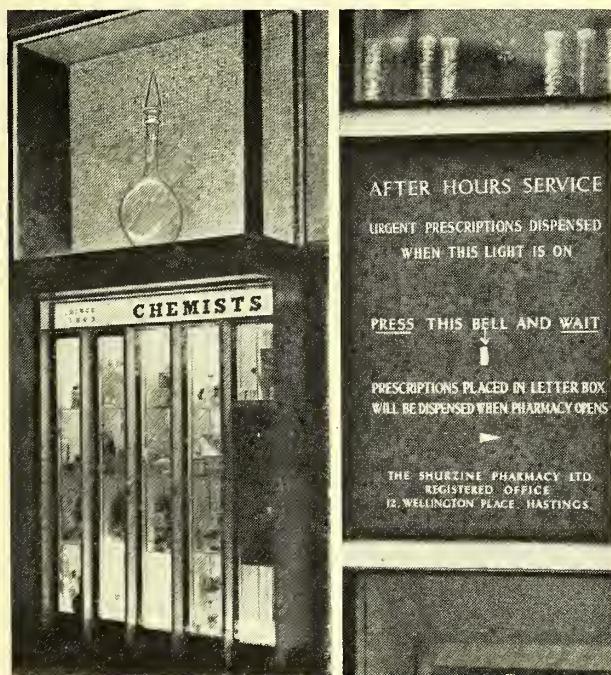
A cosmetic department has fitted most attractively into the extra space formed behind the plate-glass window and, according to Dr. E. W. Skyrme (managing director), sales have “rocketed.” On the other side of the new doors, behind the main display group of cubicles, is located the photographic department, also in “extra” space.

The wide doors give such easy access, especially when locked open, that potential customers find themselves “wandering” into the shop. The old-fashioned 1935 door and the fully enclosed windows had concealed the inside of the shop. Now the interior, including the drug counters and dispensary further inside, becomes a display feature. Group displays of associated articles are in each of the twenty cubicles. All sections of stock are always represented and, to the delight of the staff, window dressing is now reduced to a minimum.

One whole cubicle is given up to the self-explanatory bronze plate illustrated. The red light is switched on when the pharmacist is “at home.” Doctors and others passing in their cars can see, without wasting time, if service is available. The space in the cubicle behind the bronze plate is used as the entrance for the letter box.

The installation has proved one of the finest and most productive advertisements for all departments of the business and has almost eliminated the fatigue of window dressing.

The architects were B. Stevens & Partners, Hastings, Sussex.



At left are shown the twenty display cubicles in each of which there are small group displays; at right, a close-up of the bronze plate situated in the “pillars” of display cubicles.

HOSPITAL PHARMACY FORUM

THE LAW AND IN-PATIENTS' POISONS

FROM our Olympian seat of superior knowledge it is all too easy to look down disdainfully upon the ill-informed gabblings of lesser mortals when they attempt to discuss matters so complicated as poisons law. "This is a matter for the experts: let the dabblers keep out," we say. For a long time we have had it so. Pharmacists and a few specialist lawyers are the only people who have taken much interest in the intricacies of the law relating to the manufacture and distribution of poisonous substances. On the whole they have made a good job of it. The public is well served by the conscientious care given to those matters. Times change, however, and the rules that seemed well enough a generation ago may not be adequate in the face of the newer drugs and newer knowledge which we have today.

When the magistrate refers to "this horrible drug" and petty criminals plead that their misdeeds are due to its influence, the community is disturbed and asks if all is well. The "tabloid" Press readily pounces on a tasty tit-bit and, in the guise of a warning, produces an advertisement. The pharmaceutical industry and the profession at large is denigrated by cartoonists and feature writers, whose ignorance is only exceeded by their lust for exciting copy. In such circumstances only a re-examination of the existing legislation will allay public anxiety and restore confidence.

Social Dangers?

How far is revision necessary? It seems that the notion of a "poison" that was uppermost in the thinking of those who framed our present rules was that of a substance which produces acute toxicity. Certainly that is true so far as the Pharmacy and Poisons Act is concerned, though a different idea motivated the Dangerous Drugs Act. It may now be necessary to recognise that apparently innocuous substances may become a social danger if they are abused. The case of alcohol has become involved in so many conflicting interests and emotions that one despairs of any rational approach, but that is no excuse for allowing new abuses to arise if the power exists to prevent them. Many of us think that the public interest would be best served if all medicinal substances were sold only through pharmacies, and we would be prepared to see a much greater number restricted to "prescription only."

That is virtually the position we have in the hospitals. Here the underlying principle is that no medicine is given to the patient unless it is ordered by the doctor. In practice, of course, that is not always strictly maintained. Aperients, analgesics and hypnotics are sometimes given by the nurses, and the authority of the doctor is obtained retrospectively. The pharmacist has an important part to play in keeping those matters within bounds.

One of the weaknesses of the present system is that there is no legal obligation on a hospital to employ a pharmacist to look after them. Though serious accidents from the mis-handling of drugs in hospitals are happily few, they do occur—more often than not in the small hospitals without adequate pharmaceutical supervision. One of the most urgently needed reforms is to make it obligatory that every hospital shall have a pharmacist responsible for the oversight of the care and custody of drugs. It would greatly strengthen his authority and emphasise his responsibility if, in relation to those matters, the pharmacist were in the same position as the medical officer of health and the chief constable in their respective spheres. The authority of those officials is derived from the Crown through the Minister concerned and, once appointed, they cannot be removed from office by their employing authority without ministerial consent. If such a status were accorded to the pharmacist details of labelling, recording, storage and similar matters

might safely be left in his control, to be interpreted from broadly framed regulations. Naturally any accident or misdemeanour in the hospital in relation to drugs would reflect upon his administration, and that would be strong motive for his assiduous attention to efficient supervision.

The report on the care of Dangerous Drugs and Poisons in Hospitals published by the Ministry of Health some time ago showed some tendencies that would be best avoided. Details such as those requiring special types of bottles or attempting to specify cupboards for particular items should not be written into regulations. Too often they are descriptions of what has been found suitable in one hospital and has been pressed upon the committee by one enthusiastic member. An officer adequately trained in the subject should be left with the necessary authority to apply the rules to the circumstances obtaining in his hospital.

The pharmacist has much to do also in training medical students and student nurses in the principles to be observed in the care of drugs. It is usually easier to obtain co-operation when it is based on an understanding of the aims to be achieved than when mere blind obedience is enjoined. In the application of any new poisons rules it will fall to the pharmacist to give instruction and guidance not only to students but to senior staff also.

Onward from Galen

A CURRENT CAUSERIE



A BRIEF history of Evans Medical, Ltd., in the Centenary Number of THE CHEMIST AND DRUGGIST will have made every reader familiar with the fact that the company had its origins in the City of Worcester. A print of old Worcester that recently came into the possession of the company shows the actual premises. The print is dated about 1840 and shows the Foregate. The arrow indicates the original shop of John & Edward Evans in 1809. Above the door—discernible in the original print though not in the reproduction—is a Royal Coat of Arms. It dates from 1828, when Edward Evans was appointed "Chemist to the King."

ECHOES OF THE PAST

THE PLAGUE (TO PREVENT)

From "PRIMITIVE PHYSICK : or, an Easy and Natural METHOD of Curing Most DISEASES." John Wesley, 1772.
Eat Marigold Flowers daily, as a Sallad, with Oil and Vinegar: Or, a little of the Tops of Rue, with Bread and Butter, every Morning:

Or, infuse Rue, Sage, Mint, Rosemary, Wormwood, of each a Handful, in two Quarts of the sharpest Vinegar.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

IT was unanimously agreed at the February meeting of the Council of the Pharmaceutical Society of Northern Ireland that the retention fee payable by members in Northern Ireland should be increased to £3 3s.; that the fee for members working outside Northern Ireland should remain at £2 2s.; that the fee for associates should be reduced to £1 1s.; and that students' fees should remain unchanged. The motion giving effect to the new structure of fees was in the name of Mr. W. H. Boyd, seconded by Mr. J. Gordon.

Owing to the absence of Mr. J. Caldwell (president), who was ill in hospital, Mr. H. W. Gamble was in the chair. MR. GAMBLE said that the Council were sorry to learn of the president's illness and all hoped he would soon be restored to health. Present were Messrs. W. H. Boyd, N. C. Cooper, H. W. Gamble, O.B.E., J. Gordon, W. S. Hall, J. Kerr, G. E. McIlhagger, D. Moore, R. M. Watson, and Dr. R. G. R. Bacon.

Examiners' Reports

The Council considered the examiners' reports on the Society's December 1959 examinations. FINAL QUALIFYING EXAMINATION, PART II: In the practical examination in pharmaceutics there was an appreciable improvement. Some candidates were excellent and there were fewer "absurd errors" than in past examinations. In the theory papers, as usual, some were very good and some were poor, particularly candidates who were re-entering for a second or third time. The answers to the questions on posology were also better than usual.

Except for a few papers the standard attained in forensic pharmacy was extremely low. There was confusion as to the requirements of both the Pharmacy and Poisons Act and Dangerous Drugs Regulations. Knowledge of storage conditions was in most cases extremely inaccurate, and the knowledge of requirements for storage in hospitals was very poor. There was still much confusion as to the law regarding the sale of strychnine. "If the ideas expressed in candidates' answers are carried out in practice, then liability to considerable penalties would be incurred," comment the examiners.

Referring to the pharmacognosy results, the report stated that the performance of the candidates followed the usual pattern of previous December examinations. Of those sitting the examination for the first time, only a few showed a reasonable standard, while many were poor. Some improvement was shown by candidates who were resitting the examination, but in many cases the improvement was not sufficient to enable the candidates to pass. In the written paper the chief weakness was again shown in those questions dealing with the evaluation of drugs. The answers were superficial and showed a lack of understanding of the significance of the standards laid down. A number of candidates gave an account of the collection of drugs where the evaluation was asked for. The differences in the physical and chemical characters of beeswax, olive oil and castor oil were not appreciated by many candidates. The knowledge of the constituents of digitalis leaf was usually muddled, inaccurate and not up to date. The relationship between the constituents and the method of preparation and storage of digitalis leaf, colchicum corm and ergot was not fully realised. The macroscopical characters of stramonium and hyoscyamus were not known in detail, with the result that the description, in the few cases where that was given, and the sketches were quite inaccurate and thus the characters of those drugs could not be compared and contrasted adequately. The knowledge of the microscopical characters of creta was slight and usually incorrect. Answers to questions dealing with the reagents used in the examination of fibres

were lacking in essential practical details; most candidates did not give any indication of the strength of the reagent even when that was important.

In the practical examination the same faults to which attention had been drawn in previous reports were again evident. In too many cases the identity of the specimen was guessed and the description, tests and even sketches were made to fit. In general, some improvement was shown in the quality of the microscopical preparations but some, usually the poorer, candidates left for inspection slides which were useless. In the exercises dealing with the identification of unorganised drugs by sensory characters and tests, there was a tendency to identify the specimen by a process of elimination and not on positive tests of identification. The significance of the solubility or insolubility of the substance in water and solvents was not appreciated, with the result that fundamental errors were made; it was reported, e.g., that the substance was dissolved in water and the tests for colophony carried out on the solution.

In pharmaceutical chemistry the work of the majority of candidates was satisfactory and there were a number of good papers. Some candidates were ill-prepared: it was noticeable that in the main such candidates showed general weakness. The preparation of chloroform presented no difficulty but few realised the significance of the statement concerning distillation. Whilst diazotisation was understood many candidates showed no appreciation of Sandmeyer reactions. The term azeotrope and, with some, critical solution temperature presented difficulty. Whilst much detail could not be expected, particularly following a one-year course, candidates who dealt with the preparation of phenobarbitone did not understand the problem of the introduction of the phenyl group into malonic ester. Few attempted the question dealing with the preparation and estimation of two mercury compounds. The question dealing with the analysis of fixed oils was answered well on the whole; some candidates offered the (irrelevant) methods of determination; some provided excellent discussions of the significance of the values. The practical work was generally satisfactory and the quantitative work was of a reasonable standard. Calculation errors were again apparent. There were some good qualitative reports but on the whole that part was only moderately well done.

In the physiology examination candidates, on the whole, showed themselves to have a good knowledge of the subject.

Study of Unknown Structures

FINAL QUALIFYING EXAMINATION, PART I: On the whole the general standard in botany was rather more satisfactory and, in spite of there being only seventeen candidates, all the questions set were attempted. There had been an improvement in the teaching on the physiological side, though some students still quoted incorrect facts from out-of-date textbooks. The anatomy question in the practical examination was usually well, and sometimes excellently, done. The question on the flower was less well attempted, and the idea of the flower as a functional unit adapted for pollination was still not wholly understood—otherwise the statement that veronica flowers were wind pollinated would not have come up so frequently. With some candidates, in both the theory and practical questions, it was clear that there was confusion between pollination and dispersal. Interpretation of plant parts was still weak, judged from the poor accounts of the bulbs provided in the practical examination, which were frequently named as corms or even fruit. "Students should be given more opportunity for independent study of unknown structures in laboratory periods so as to develop the capacities for investigation and

interpretation. As it is, it is evident that they are working to rigid schedules and have little idea how to tackle material which they have not seen before."

Seventeen candidates sat the zoology examination; all but two passed in the theoretical paper, and all except five in the practical test. Two failed in both sections. "The theoretical standard was unusually high, and, from an examiner's point of view, very satisfactory. In practical, the 'spots' were on the whole quite well done, though a slight tendency was apparent to confuse the mouth-parts of the cockroach with its legs." The dissections of the frog arterial system were uniformly poor, giving the impression that candidates had little practice on that animal.

In the chemistry report, the performance of candidates is described as "mediocre"—about half reached a satisfactory standard. Only a few obtained a high mark in the written paper and a number were "lamentably weak and ill-prepared." The report states: "Candidates must give the proper time to study if they are to grasp the subject. Conscientious work will bring understanding and that in turn the ability to tackle questions intelligently and with confidence. There were a few very good papers and it was pleasing to note the number of candidates giving satisfactory answers to the questions requiring a more fundamental knowledge and the ability of some to discuss Avogadro's hypothesis. Although the use of potassium permanganate in volumetric analysis was fairly well dealt with, the question on procedures for qualitative analysis of mixtures of acid radicals was answered in a disappointing manner." Practical work was moderately well done. There was room for much improvement in quantitative work particularly in connection with the attainment of accuracy in weighing. Qualitative work was well done on the whole.

Commenting on the physics results the report states: "It is probably true to say that students who choose a pharmaceutical chemistry career are unlikely to find the study of physics a satisfactory discipline. Mindful of that the standard of answering in the physics examinations of the past few years, and especially in the recent examination, can be considered very satisfactory."

Forensic Results "A Disgrace"

Commenting on the forensic pharmacy results, MR. N. C. COOPER said they were a disgrace. "This subject forms a major part of the pharmacist's work and if this report is a reflection on the poisons laws of this Province we should be prepared to go to any lengths to see that the matter is put right," he said. MR. W. H. BOYD described the forensic results as "pathetic." They implied a lack of training in the shops. MR. W. GORMAN (secretary) said that irrespective of when a course started, forensic pharmacy lectures began in September and continued until December. It was agreed that Belfast College of Technology should be asked to suggest what was the cause of the poor results in the subject.

The Council had before them a letter from Pfizer, Ltd., in reply to one from the Society's secretary concerning the ethics of the company's approach to headmasters of schools and directors of companies recommending the use of a particular influenza vaccine. Messrs. Pfizer expressed surprise that the Council had made available for publication the company's original communication on the subject (C. & D., January 2, p. 10) and also that the Council had suggested that the company should be asked for copies of the statement it circulated, because that implied that the members had made up their minds as to the ethics of Pfizer's action without having seen the statement. The letter said that in view of the fact that the statement had been directed at managing directors and headmasters the company found it difficult to see how large numbers of patients could know of the existence of the vaccine. The letter also expressed agreement with the inadvisability of creating a situation where patients were demanding particular medicines from doctors and added that the Cohen Committee

had informed Messrs. Pfizer that the vaccine (Flubron) had been placed in category "O." The Council agreed that the matter should not be discussed further.

A recommendation in the report of the Education Committee, presented by MR. D. MOORE (chairman), that the theory examinations should be held on June 10 and 11 and the practicals from June 20 to 24 was adopted. The report also contained a letter from the Ministry of Education regarding awards to pharmaceutical students and it was agreed that a subcommittee comprising Messrs. Moore and Gorman and Dr. R. G. R. Bacon should meet an official of the Ministry for clarification of some of the suggestions.

The Finance Committee's report, which contained a recommendation that accounts totalling £155 should be passed for payment, was also adopted on the proposal of MR. J. GORDON (chairman) seconded by MR. R. M. WATSON (treasurer).

At question time, MR. W. H. BOYD said that the subject of illegibility and irregularity in hospital prescriptions had been raised at a meeting of the Northern Ireland General Health Services Board and it had been decided that the medical members should produce some evidence for the next meeting of the liaison committee on March 8. He had been asked to produce evidence also and would be glad to hear from anyone who had such evidence.

The Council granted an application from a woman pharmacist for restoration to the register and one for registration from John Simma Strachan, who passed the Qualifying examination of the Pharmaceutical Society of Great Britain in 1954.

NEW BOOKS

Formation of Private Companies

DOUGLAS BARKER and A. P. HALBERSTAM, *Sweet & Maxwell, Ltd.*, 11 New Fetter Lane, London, E.C.4. 9½ x 6 in. Pp. 236. 35s.

Divided into three main parts the book deals first with the various types of company and their advantages and disadvantages; the incidence of taxation; and death duties. The second part is concerned with the formation and registration formalities and the third part deals briefly with the conversion of a private company into a public one. It is a useful book for those in business who wish to have available a reliable yet readable guide on an intricate subject.

Principles of Nutrition

E. D. WILSON, K. H. FISHER and M. E. FUQUA, *John Wiley & Sons, Inc. (Chapman & Hall, Ltd.)*, 37 Essex Street, London, W.C.2. 9 x 5½ in. Pp. xii + 483. 48s.

TECHNICAL books that can be read by non-technical students are rare. The American authors of this book have, with fair success, interpreted their subject in laymen's terms. Definitions and a glossary contribute to that intention, and there is lavish diagrammatic illustration, though unfortunately the diagrams suffer from being rather small. The book is in its original American form, with the result that folic acid appears as folacin, the American Institute of Nutrition name for the compound. With such peculiarities allowed for the volume is a useful contribution to the literature upon nutrition.

Passport to Paradise . . . ?

BERNARD FINCH, *Arco Publications*, 29 Great Portland Street, London, W.1. 8½ x 5½ in. Pp. 191. 18s.

WRITTEN by a general medical practitioner, the book sets out to review for laymen the drugs by which men have sought throughout the ages to allay anxiety and pain or to escape from reality. Its apparent intention is to remove from the subject of narcotics much of its false glamour. The method by which the author sets out to achieve that aim is to describe subjective clinical reactions to narcotics, hallucinogens, etc., supplementing the text with illustrations chosen for the sordid light they throw on aspects of addiction. Whether, in the result, the author does more than pander to the morbid curiosity of the ordinary reader is open to question. The title and book jacket would seem oddly at variance with the ostensible purpose.

THE PHARMACIST AND COMMON LAW

Judicial interpretations which affect his professional and private life

COMMON LAW can affect the pharmacist in many ways, both in his professional and his private life, independent of whether he is engaged in general practice, hospital work or is an employee of one of the manufacturing companies, said Mr. C. C. Stevens, LL.B., M.P.S., in an address to the Harrow Branch of the Pharmaceutical Society recently. The Common Law referred to was the Common Law of England and did not apply to Scotland, whose system of law was based on Roman law as distinct from the Common Law system found in countries who took their system of law from English sources. Mr. Stevens continued:

It is necessary, however, first to inquire what is meant by Common Law. English law is derived from many sources. There is Statute Law consisting of Acts of Parliament passed by the legislature and Regulations made under the various statutes. There is a large and technical section of law known as Equity, formerly administered in the Courts of Chancery and dealing with such things as trusts and partnerships. The law found in the Probate, Divorce and Admiralty Division of the High Court is also of a specialised character, probate and divorce law being descended from Church Law and Admiralty law arising from the Sea Law of civilised nations. That law which is left and is frequently based on immemorial English custom is known as Common Law. Its two big divisions are contract and tort. Although contract and tort have been modified or consolidated in recent times by Statute in order to meet modern demands, to a great extent the law of contract and tort is not set out in Acts of Parliament but consists of judicial interpretations given in the courts and built up over hundreds of years.

Entering into Contract

Of particular interest to pharmacists are certain Statutes that have either modified or consolidated the Common Law in order to give greater clarity or protection to the public. They are the Sale of Goods Act 1893 and Merchandise Marks Acts, 1887 and 1953.

Entering into contract is an action which everyone does scores of times yearly, although perhaps not realising consciously that one is making contracts. A contract is defined as a promise, legally binding, dependent upon agreement; it must be a distinct statement of the terms of the agreement of the parties affecting their legal relations, the evidence of which commonly takes the form of offer and acceptance. Thus offer and acceptance is known as the promise. There must be the presence of either form or consideration, a capacity of the parties to make a valid contract, genuineness of the consent expressed, and the objects which the contract proposes to effect must be legal.

Analysing the promise, which consists of offer and acceptance, pharmacists would do well to note the difference between a firm offer and an offer to

treat. For example, price lists and catalogues are not considered firm offers which could be made binding by acceptance, but merely as offers to treat on which later business may be based. Some pharmacists may have marked goods in their window with a wrong price ticket and wondered if they were bound by that price should a customer enter the pharmacy and demand the goods at the price marked. There was a case in the courts when a customer demanded to purchase an article mistakenly marked at what was a very low price. The shopkeeper refused to sell and the case went to court based on contract. The customer maintained that marking any goods in a window with a price was an offer and that her decision to buy was acceptance, thus making a contract. The court held, however, that prices marked on goods in a shop window were not an offer but an offer to treat.

Offer and Acceptance

Although, generally speaking, an offer must be made before a contract can be concluded, the law has held in the case of *Paynter v. Williams* that where one allows a person to do work for which one expects to pay the person is liable as if a contract had been made. For example, if a workman came into one's pharmacy and asked if he might wash down the shop front, he has not mentioned anything about payment but as that is work for which one would normally expect to pay, acceptance of his offer to do the work is also construed as acceptance of a willingness to pay a fair price for the work done.

Offer and acceptance must be communicated, although it is not necessary that the communication be in writing or of a formal nature. For those who accept offers by post, it should be pointed out that acceptance is made when the letter is posted and not when it arrives at the premises of the recipient. Once a contract is made, there is no unilateral right to cancel. A telegram cancelling an order, although received at the supplier's premises before the order, need not necessarily be acted on.

Sometimes acceptance of an offer can be implied by conduct and does not need oral or written evidence. Curiously enough, the leading case on acceptance by conduct is of a pharmaceutical nature and is known as the Carbolic Smoke Ball case decided in the late nineteenth century. The Carbolic Smoke Ball Co. placed on the market an influenza remedy consisting of smoke balls rather like fumigating pastilles and the sufferer was supposed to ignite them and inhale the fumes. Each packet contained a guarantee that the company would pay a sufferer £100 if, after carrying out instructions for the full period of treatment, influenza was not cured. A Mrs. Carlill, who suffered from influenza, bought a packet of smoke balls and carefully carried out the instructions in the presence of a witness. At the end of the

period of treatment her influenza was not cured and she sued the company for the penalty. Her claim was sustained in the High Court as the judge ruled that, by the very nature of the wording of their literature, the company had dispensed with the need of written acceptance and it was obvious that what they required was acceptance by conduct.

Many of the readers now in business will remember White's electric combs whose makers, not having studied the law reports, made similar claims. The combs were sold with a guarantee that they would perform certain functions for the hair of the user under a monetary penalty and, when a case was brought against them by a dissatisfied user, they were forced to pay.

Third Parties

If one has second thoughts on an offer, it must be revoked before acceptance, otherwise a legally binding contract is made. Third parties have no rights or duties under a contract, and death of one of the parties causes a lapse and not devolution. In respect of the latter, pharmacists should differentiate between a person who trades and enters into contracts under his own name as an individual, for example, John Smith, and one who trades as a limited company but using his own name as a registered title (John Smith, Ltd.). The death of John Smith would cause lapse of a contract in the former case but not in the latter, as a limited company has, at law, a separate corporate existence from the individuals which compose it and the death of an individual officer or shareholder does not mean the demise of the company.

The word "form" was used earlier in connection with contract when it was stated that either form or consideration must be present. Form in that context means a contract under seal. A contract under seal is binding whether made for consideration or not and is an historical survival of the reverence that the law has given to a seal for hundreds of years. Normally, it is not of importance whether a contract is written or not because, provided suitable evidence can be brought to support it, an oral contract is just as binding as a written contract. There are exceptions by Statute, for example a bill of exchange, a contract for the repayment of money borrowed from a moneylender, etc.

It is probably well known that if a customer owes a debt and no action is taken for recovery and no acknowledgement of the debt is received, no proceedings may be taken in court after a period of six years. An acknowledgement of the debt revives the rights of action but it is essential that that acknowledgement shall be in writing and signed by the person who is the debtor.

Previously, under the Sale of Goods Act, 1893, Section 4, it was necessary for contracts for the sale of goods to a value of £10 or more to be evidenced by writing or part performance. That, together with some requirements for written contracts, under the Statute of

Frauds of 1677, has been swept away by legislation passed recently, and at the present time an oral contract for the sale of goods is as effective as a written one. There is no need for the pharmacist to sign orders given to representatives, either legally or morally, and the word of the pharmacist should be sufficient for any firm of good standing.

Although section 4 of the Sale of Goods Act 1893 is no longer in force, the other sections of that important Act are still binding upon parties to a contract and pharmacists would do well to be acquainted with some of its provisions, especially section 14. Sub-paragraph (1) of that section reads:—

"Where the buyer expressly or by implication makes known to the seller the particular purpose for which the goods are required so as to show that the buyer relies on the seller's skill or judgment and the goods are of a description which it is in the course of the seller's business to supply (whether he be the manufacturer or not) there is an implied condition that the goods shall be reasonably fit for such purpose; provided that, in the case of a contract for the sale of a specified article under its patent or other trade name, there is no implied condition as to its fitness for any particular person."

It may fairly be said that, in many sales conducted in a pharmacy, the customer does make known to the seller the purpose for which he requires the goods and definitely relies on the seller's skill or judgment. In fact, the pharmacist may be said to possess a particularly high degree of skill concerning most of the goods which he sells. There is, therefore, in each contract of sale, a legal condition that the goods shall be fit for the purpose for which they are sold. That is a heavy burden on the pharmacist but one that, with his sense of professional responsibility, he should not expect to shirk although, fortunately, prosecutions under that section in the pharmaceutical field are comparatively rare. The Act exempts products sold under a trade name but they are covered by recent legislation such as the Merchandise Marks Act, 1953.

Responsibility for Defects

Section 14 (2) of the Sale of Goods Act requires that, where goods are bought by description from a person who deals in goods of a particular type, there is an implied condition that the goods are of a merchantable quality, but if the buyer has had a fair chance to examine the goods, the seller is not responsible for defects which the examination should have revealed. In such cases the old maxim of "*caveat emptor*" or "let the buyer beware" applies. Sale of goods by sample is more likely to be made by the manufacturing or wholesale pharmacist than by the retail pharmacist and, where goods are sold by sample, the Act states in section 15 (2) there are implied conditions that the material supplied in bulk shall correspond in quality with the sample, that the buyer shall have a reasonable opportunity of comparing the bulk with the sample and that the goods should be free from any defect rendering them unmerchantable, which would not be apparent on reasonable examination of the sample.

One part of the Statute of Frauds requiring written evidence of a contract that still remains effective is that in which a person agrees to answer for the debt or default of another and which has given rights to what are known as the "guarantee cases." They are of interest to the pharmacist in retail business because of the technical aspect of the law involved. The difference is adequately covered by part of a judgment given in the King's Bench Division of the High Court in 1902:—"If two come to a shop and one buys and the other, to gain him credit, promises the seller 'If he does not pay you, I will,' that is a collateral undertaking and void (unenforceable), without writing, by the Statute of Frauds. But if he says 'Let him have the goods, I will be your paymaster' or 'I will see you paid,' is an undertaking as for himself and he shall be intended to be the very buyer and the other to act as but his servant." In the latter example, no writing is required. It will be seen, therefore, that if the pharmacist is offering credit to a customer on the recommendation of another customer, he almost requires a law book at his elbow to know what course of conduct to take.

Consideration Defined

Consideration in law may be anything of value, no matter how small the value. That may, in fact, be insignificant provided it can be said to have some value. It must not be past, must come from the promisee and must be legal. The leading case of *Currie v. Misa* in its judgment contains the classic definition of consideration: "*A valuable consideration in the sense of the law may consist either in some right, interest, profit or benefit, accruing to one party, or some forbearance, detriment, loss or responsibility, given, offered or undertaken by the other.*"

On the question of capacity, the one division that is likely to interest the pharmacist in business is that of infants. An infant, by which is meant a person under the age of twenty-one, cannot be sued against on a contract. If an infant obtains goods from a pharmacy on credit, the pharmacist has no redress unless the goods obtained were necessities. The law maintains, however, that necessities depend not only upon the situation of life of the infant but also on what goods in that class the infant already possesses.

The wisest course is to grant no credit to infants but make any transactions through their parents.

When an infant becomes of full age, he cannot ratify a contract made when he was a minor and therefore unenforceable against him. The courts have been strict in their application of the principle to loss of money and have so found on contracts made to pay a debt contracted during infancy. Later it will be explained that although not liable at contract, an infant is liable under tort or for wrongs that he has committed, but the courts will not allow breach of contract to be treated as a wrong to allow an infant to be liable at law for his contract. The classic case is one in which an infant hired a mare to ride and injured her by over-riding. The court held that he would not be made liable by suing him in an action

of tort for negligence where the damages arose really out of contract. An infant who has obtained a loan by falsely representing his age cannot be made to repay the amount of the loan in the form of damages under an action at tort for fraudulent misrepresentation. It is little satisfaction to a pharmacist who may have claims upon an infant to abandon the civil law and prosecute him at criminal law, as what the pharmacist requires is not vengeance but a restitution of his goods or money.

Contracts for an infant's benefit can, however, be enforced and there is no doubt that the courts would give legal redress if a contract of articles of pupilage of a student pharmacist were broken.

Dealing with other divisions of the subject of capacity, contracts made by lunatics and drunks cannot be enforced if it is proved that at the time they were made the lunatics and drunks did not know what they were doing, and that the other party to the contract was aware of the disability suffered by the lunatic or drunk.

Certain persons are under a disability, for example, enemies and convicted felons serving terms of imprisonment have no rights in contract, whilst members of the Royal College of Physicians are barred by their professional association from suing for work done. At one time, a contract made by a corporation was valid only if made under the seal of the corporation but present-day practice is to enforce a contract with a corporation provided it has been made by a duly authorised officer who would be expected to be requiring the services covered by the contract. For example, if a local authority engaged a pharmacist and the letter of appointment was signed by the staff and establishment officer, that would be regarded as a binding contract even if not under a seal. On the other hand, if a retail chemist supplied a corporation with disinfectant and the order came from the rates collection department, no court would uphold it if not under seal, but the same purchase made by the public health department would be regarded as valid.

Position of Married Women

Married women, who for many years at English law have been under disadvantages, are now completely emancipated and on equal terms, in the eyes of the law, with men. They may make contracts and be liable for them in their own right but they still have the right to pledge their husband's credit for necessities for themselves and the marital home. A contract may be voided at law where there is no real consent. Examples of that are mistake as to existence of a fact at the root of the contract (but not a mistake of law), misrepresentation, absence of *consensus ad idem*, duress and undue influence and non-disclosure of material facts in contracts *uberrimae fidei*. The most important in the last class are insurance contracts. It is essential when filling out a proposal form for insurance, not only to give truthful answers but in addition to give all relevant information, otherwise the contract may be voided.

(To be concluded)

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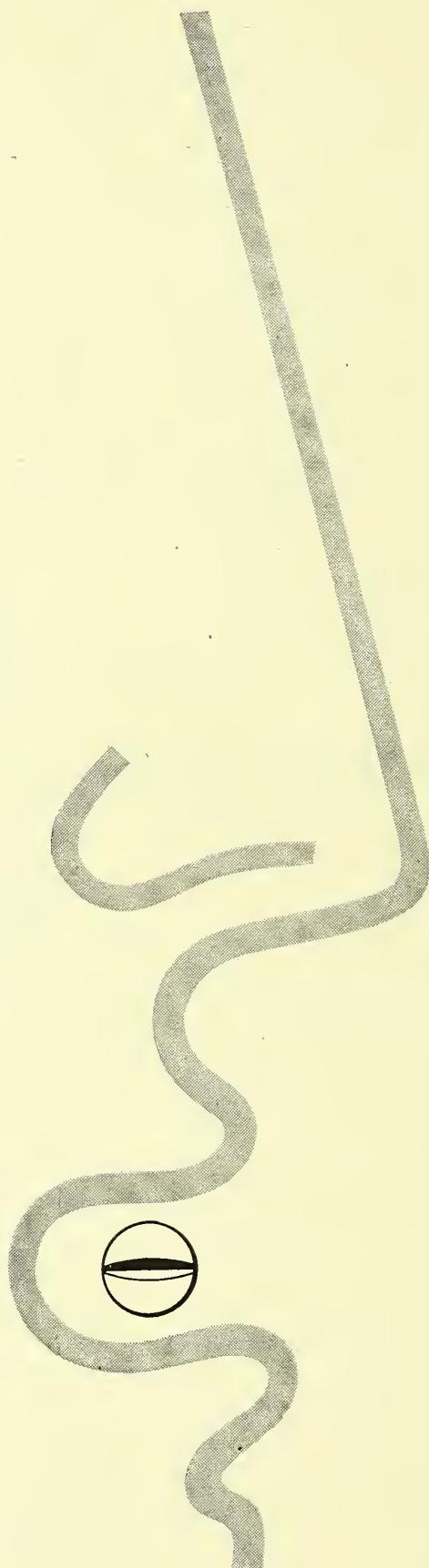
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The inside story of Decongestion 'Actifed'

'ACTIFED' provides a *new* approach to nasal and bronchial congestion in the common cold: it tackles the problem from the *inside*. Is in tablet form, and is taken *by mouth*. Contains, in each tablet, the potent antihistamine triprolidine hydrochloride ('Actidil') 2.5 mgm., and pseudoephedrine hydrochloride 60 mgm. Taken orally, these two drugs together decongest the *upper and lower respiratory tract*, and reduce bronchospasm.

Eliminates the need for sprays or other apparatus—and decongests areas not normally reached by topical preparations. Does not cause secondary engorgement or impair ciliary action.

Is indicated for the relief of congestion associated with allergic and non-specific respiratory disorders as well as that of the common cold. It is also of value against allergic asthma in the young patient. The average adult dose is one tablet twice a day, increased to three times a day if necessary.



'Actifed'

***Tablets—relieve nasal
congestion Orally***



BURROUGHS WELLCOME & CO.
(The Wellcome Foundation Ltd.) LONDON

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 24: There were few price movements in the CRUDE DRUGS market during the week but Brazilian MENTHOL again provided a firm feature, the in-bond price advancing by 5s. per lb. to 51s. and shipment by 4s. to 50s., c.i.f.

AGAR also maintained its firm tone, the value moving up by three-halfpence per lb. TRAGACANTH was dearer by £5 per cwt., but GUM ACACIA eased slightly on lower offers from origin. Offers from South Africa of BUCHU, while showing some price variation, indicated a desire to move some of the new crop leaves.

Among ESSENTIAL OILS the most notable change was in Brazilian PEPPERMINT, which rose from 13s. 9d. to 16s. 3d. per lb. on the spot and by a similar amount for shipment. Also dearer were CITRONELLA, the Ceylon variety by fourpence-halfpenny per lb. and the Formosan by twopence. Bourbon GERANIUM was 10s. per lb. higher at 18s. Cheaper per lb. were LEMON-GRASS by sixpence and ANISE by one penny.

ZINC OXIDE was reduced a further £2 10s. a ton to £110. CORTISONE and HYDROCORTISONE show a reduction from the last quoted prices.

Pharmaceutical Chemicals

ACETIC ACID.—B.P. glacial, 10-ton lots, £112 per ton naked; technical (80 per cent.), £97. Carboys are £8 and demijohns, £10 per ton extra. Single carboy lots, 1s. 8d. per lb. (3s. 8d. per kilo).

ANEURINE HYDROCHLORIDE.—1-kilo, £11 15s.; 10-kilos, £11 7s. 6d. per kilo.

ASCORBIC ACID.—One-kilo, £3 12s.; 10 kilos, £3 10s. per kilo. SODIUM ASCORBATE is offered at the same prices.

BARIUM SULPHATE.—B.P., 250-kilo lots, 3s. 3½d. per kilo.

BENTONITE.—B.P. about £70 per ton.

BENZOIC ACID.—One-cwt., 2s. 11½d. per lb.; and SODIUM SALT, 2s. 9½d. per lb.

BENZYL BENZOATE.—B.P. in 1-ton lots, 4s. 6d. per lb.

CALCIFEROL.—B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM PANTOTHENATE.—£8 per kilo.

CHINIPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CHLORAL HYDRATE.—One-cwt. lots, 4s. 3d. per lb.

CORTISONE.—One-kilo lots, ACETATE, 10s. 6d. per gm. HYDROCORTISONE, ACETATE or ALCOHOL, 11s. per gm.

CREAM OF TARTAR.—Home trade:—1-ton lots, 24s. per cwt.; 10-cwt., 242s.; 5-9cwt., 243s.; 2-4cwt. 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.).

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

CYANOCOBALAMIN.—25-gm. lots, £39 per gm., and 1 gm., £40.

FOLIC ACID.—B.P. and U.S.P., 1s. per gm. 1-kilo lots; smaller lots, up to 1s. 6d. per gm.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per

cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

GLYCYRRHETINIC ACID.—Per gm., 2s. 3d.

GUAIACOLS.—LIQUID B.P.C., 16s. per lb. for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

HEXAMINE.—B.P., 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs. Technical is threepence per lb. less.

HOMATROPINE.—16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROXYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheels from 3s. 10d. to 4s. 9d.

IODIDES.—(Per kilo). POTASSIUM, 50-kilo lots and over 15s.; SODIUM, 20s. 6d.; AMMONIUM, 45s.

IODINE.—Resublimed in 50-kilo lots or over, 23s. 1d. per kilo. Minimum delivered rate for CRUDE is 15s. per kilo.

IODOFORM.—Powder, 22s. 4d. per lb. in 28-lb. lots; 21s. 8d. in 1-cwt. and 21s. 1d. in 5-cwt. lots. Crystals are 3s. per lb. more than the powder.

ISOPRENALE SULPHATE.—(Per gm.). 100-gm. lots, 1s. 6d.; 500-gm. 1s.; 1-kilo, 9d.

LACTATES.—CALCIUM, B.P., 2s. 3d. per lb in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d. per lb.

LACTOSE.—B.P., in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

MENAPHTHONE.—B.P., 170s. per kilo; ACETOMENAPHTHONE, B.P., 170s.; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), 200s. per kilo.

MERCURY DERIVATIVES.—Quotations (per kilo) for less than 50-kilo lots:—AMMONIATED, B.P., lump or powder, 57s. 9d.; PER-CHLORIDE, B.P., powder, 49s. 6d. and lump, 50s. 9d.; SUBCHLORIDE (calomel), B.P., 56s. 9d., OXIDES, yellow, B.P., 60s.; red B.P.C., 1949, 61s. 3d.

NICOTINAMIDE.—(Per kilo), One-kilo, 61s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID.—One-kilo, 39s.; 50-kilos, 36s. per kilo.

NIKETHAMIDE.—Per kilo, 100s.

PARALDEHYDE.—B.P. in 12-winchester lots, 2s. 10d. per lb. (6s. 3d. kilo); 10-gall. carboys, 2s. 4d.

PHENOLPHTHALEIN.—One-cwt. 9s. per lb.

PHENYTIN SODIUM.—One-cwt. lots 23s. per lb.; less than 56-lb., 25s.

PILOCARPINE.—In 2-kilo lots prices are: HYDROCHLORIDE, 1,013s. per kilo; NITRATE, 2s. 4½d.; ETHYL CARBONATE, 4s. 3d.

PYRIDOXINE.—One-kilo, £52 10s. per kilo; 10 kilos, £50 15s.

QUININE.—1,000-oz. lots:—SULPHATE, B.P., 1932, 1s. 10½d. per oz.; SULPHATE, B.P., 1953, 2s. 0½d.; BISULPHATE, 1s. 10½d.; DIHYDROCHLORIDE, 2s. 6d.; HYDROCHLORIDE, 2s. 4½d.; ETHYL CARBONATE, 4s. 3d.

RIBOFLAVINE.—One kilo, £13 17s. 6d.; 10-kilo, £13 10s. per kilo.

SALICIN.—Quoted at 17s. 6d. per oz.

SULPHUR.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

TARTARIC ACID.—10-cwt. lots, 300s. per cwt.; 5-9 cwt., 302s.; 2-4 cwt., 304s.; 1-cwt., 305s.

TEREBENE.—One-carboy lots, 4s. 2d. per lb. Winchesters, 15s. 9d. per lb.; 28-lb., 14s. 6d.

TEREBINTH.—B.P., 2s. 3d. per lb.

UREA.—Pharmaceutical grade, £60 10s. per ton in 1-cwt. bags non-returnable; technical quality, £42 per ton (4-ton lots).

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 9½d. per million i.u.

VITAMIN D₂.—In oil, 2 million units per gm. the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—TOCOPHERYL ACETATE, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £31 5s. per kilo; 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and 10d. per gm. and £37 and £35 10s. per kilo.

Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: 95 per cent. Gay Lussac, 66 o.p.; where the number of proof gall. taken over any one year ended March 31 is 300,000 or over 3s. 10½d.; 200,000 to 300,000, 3s. 10½d.; 100,000 and less than 200,000, 3s. 11½d.; 50,000 and less than 100,000, 3s. 11½d.; 10,000 and less than 50,000, 4s. 0½d.; 2,500 and less than 10,000, 4s. 0½d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of two-pence per proof gall.

Absolute Alcohol, 95.5 per cent., 74.5 o.p., from 4s. 2½d. to 4s. 4½d. for same quantities; the special high strength (99.9 per cent., 75.2 o.p.) from 4s. 4½d. to 4s. 6½d. *Doubly Rectified Alcohol* (S.V.R.) 95.8 per cent., 68 o.p., from 4s. 0½d. to 4s. 2½d.; and *P.I. Rectified Alcohol*, 96.1 per cent., 68.5 o.p., 4s. 1½d. to 4s. 3½d. *R. R. Absolute Alcohol* (re-rectified), 99.7 per cent., 75 o.p., 14s. 6d. per bulk gall. net.

Duty is £10 12s. 4d. per proof gall.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 5s. 8½d.; 100 gall. and under 500 gall., 5s. 1½d.; 40 gall. and under 100 gall., 6s. 3d.; 10 gall. and under 40 gall., 6s. 8½d.; 5 gall. and under 10 gall., 7s. 2d. Strength 64 o.p., 1d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 6d.; 6s. 9d.; 7s. 0½d.; 7s. 6d. and 7s. 1½d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 0d. (tank wagon) for 500 gall. to 8s. 7½d. for 5-10 gall. (in drums) for 64 o.p.

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 11d.; 100 gall. and under 500 gall. (in drums), 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE.—Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobe No. 1, 13s. 7½d. per lb., in bond; shipment, 13s. 6d., c.i.f.

ALOES.—Cape primes, spot, 185s. per cwt. quoted; shipment, 172s. 6d., c.i.f. Curaçao, 500s. spot.

BALSAMS.—Per lb.:—CANADA: Spot, 22s. COPAIBA: Para from 7s., duty paid. PERU: Spot 9s. 6d. in bond. TOLU (genuine as imported): spot cleared, March–April delivery, 22s. 6d., landed; B.P., 14s. 3d.

BELLADONNA.—LEAVES (t.a. 0·6 per cent.), 2s. 9d. per lb. ROOT scarce on spot.

BENZOIN.—Sumatra block, spot £22 to £30 as to quality.

BUCHU.—Spot rounds, 3s. 9d. per lb.; shipment, 3s. 3d., c.i.f.

CALABAR BEANS.—Spot, 2s. per lb.

CALUMBA.—Root, 100s. per cwt., spot.

CAMPHOR.—B.P. powder, 3s. 7½d. per lb. in bond.

CAPSICUMS.—East African, nominal, 185s. per cwt.

CARDAMOMS.—Aleppo greens, spot, 15s. 6d. per lb.; prompt shipment, 15s. 3d., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

CASCARA.—Shipment, 275s. per cwt., c.i.f.; spot, 300s.

CASSIA.—*Fistula*, 115s. per cwt., spot.

CHERRY BARK.—Thin natural, 1s. 6½d. per lb.; rossed, 1s. 11d.

CLOVES.—Zanzibar spot, 2s. 9d. per lb.; shipment, 2s. 5d., c.i.f.

COCILLANA.—Bark, 2s. per lb., spot.

COLOCYNTH PULP.—Spot, 2s. 6d. per lb.

DIGITALIS.—*Purpurea* for shipment, 1s. 2½d. to 2s. 6d. per lb., c.i.f., as to quality.

ELEMI.—Spot from 1s. 10½d. per lb., shipment, 1s. 7d., c.i.f.

ERGOT.—Portuguese, 5s. per lb., c.i.f.; spot, 5s. 6d. East European not offering.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt.

GINGER.—African, 175s. per cwt. spot; March–April shipment, 150s., c.i.f. Jamaican No. 3, spot, 250s.; March–April (new crop) 260s., c.i.f. Cochin, February–March shipment, new crop, 150s., c.i.f.

GUM ACACIA.—Kordofan cleaned sorts, 170s. per cwt., spot; shipment, 149s., c.i.f.

HENNA.—Indian, spot, 95s. per cwt.; shipment, 62s. 6d., c.i.f.

HONEY.—Australian light amber, 90s. to 95s. and medium amber, 85s. to 90s. Argentine, 102s. 6d. to 105s.; Jamaican, 115s. to 120s.; Canadian clover, 145s. to 150s., all per cwt. on the spot ex warehouse.

IPÉCACUANHA.—Matto Grosso, 53s. to 55s. 6d. per lb., c.i.f., as to position; Colombian, 54s., c.i.f., February–March. Spot Colombian 55s. 6d.

JUNIPER BERRIES.—Italian 90s. per cwt., spot.

KARAYA.—No. 1 gum on the spot is quoted at 260s. per cwt. nominal, No. 2 at 230s., nominal.

KOLA NUTS.—Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LANOLIN.—ANHYDROUS, B.P. is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL.—From 2s. 6d. to 3s. 6d. per lb.

LINSEED.—Whole, 85s. per cwt.; crushed, 110s.

LIQUORICE.—Natural root: Persian on the spot, 46s. 6d. and Russian, 70s. per cwt. Block juice: Anatolian from 190s. per cwt.; Italian stick from 310s. to 470s. per cwt.

MENTHOL.—Chinese, 67s. 6d. per lb., duty paid as to seller; shipment not offering. Brazilian, 51s., in bond; 50s., c.i.f.

MYRRH.—(Per cwt.). Good sorts, £26 c.i.f.

NUTMEGS.—West Indian 80's 13s. 3d. per lb., spot: sound unassorted, 10s.; defectives, 8s. 6d.

NUX VOMICA.—Scarce. Shipment 125s. per cwt. c.i.f.; spot, 140s.

ORANGE PEEL.—Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 7d.

ORRIS ROOT.—Florentine is 340s. per cwt.

PEPPERMINT LEAVES.—Dutch, 2s. 7d. to 3s. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt. nominal; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 200s. per cwt. spot, and 185s. c.i.f., for shipment. *Peltatum*, spot value, 375s.

PYRETHRUM.—Extract, minimum, 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLIA.—Spot whole bark, 110s. per cwt.; crushed, 150s. Whole for shipment, 97s. 6d., c.i.f.

RHUBARB.—Chinese small round from 5s. 9d. to 6s. 9d. per lb. on the spot.

SARSAPARILLA.—Jamaican native red on the spot, 2s. 6d. per lb. Shipment, 2s. 1d., c.i.f.

SEEDS (Per cwt.).—ANISE.—Bulgarian, 130s.; Turkish, 135s.; Spanish, 160s., duty paid. CARAWAY.—Dutch, 142s. 6d., duty paid; 120s. c.i.f. for shipment. CELERY.—Indian, 145s. spot; shipment, 127s., 6d., c.i.f. CORIANDER.—Moroccan, 45s., duty paid; shipment, 32s. 6d., c.i.f. CUMIN.—Iranian, 250s., duty paid; Indian, 235s. spot; 195s. c.i.f. for shipment. DILL.—Indian, 95s., spot, shipment, 85s., c.i.f. FENNEL.—Chinese, 110s., duty paid; Indian, 115s. FENUGREEK.—Moroccan dearer at 46s. 6d., spot, duty paid. MUSTARD.—English, 77s. 6d. to 90s. according to quality.

SENEGA.—Spot 19s. 6d. per lb.; shipment, small lots at 18s. 9d., c. and f. quoted.

SENNA.—*Timnevelly* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 9d. PODS: manufacturing (f.a.q.), 10d. and hand-picked, 1s. 6d. to 1s. 10d. *Alexandria* pods: Manufacturing offered from 1s. 6d. Good hand-picked cleared.

SHELLAC.—F.O.T.N., 200s. per cwt.; No. 1, 220s.; F.O., 230s. to 280s., spot.

SQUILL.—White: from 80s. to 85s. per cwt. spot.

STRAMONIUM.—Indian LEAVES 60s. per cwt. spot. Dutch 0·5 per cent. alkaloid, 93s. c.i.f.

STYRAX.—Spot, 33s. per lb., shipment, 32s., c.i.f.

TONQUIN BEANS.—Para spot, 8s. per lb. Shipment about 7s. c.i.f. *Angostura* 11s.

TRAGACANTH.—No. 1 ribbon, £135 to £140 per cwt. No. 2, £125 to £130.

TURMERIC.—Madras finger on spot is 110s. per cwt.; new crop, April–May shipment, 95s., c.i.f.

VALERIAN ROOT.—Spot: Indian (with rootlets), 130s. and Belgian, 175s. per cwt. Dutch whole (max. 2½ per cent. sand) for prompt shipment, 159s., c.i.f.

VANILLIN.—Rates (per lb.) are now: 5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6d.; 56-lb., 23s. 9d.; smaller quantities, 24s.

WAXES.—(Per cwt.). BEES'—Dar-es-Salaam, spot, 480s.; shipment, 470s., c.i.f. Abyssinian, spot 410s. in bond; shipment, 405s., c.i.f. Benguela, shipment, 405s., c.i.f. Sudanese, spot, 450s.; shipment, 390s., c.i.f. CANDELILLA, spot, 460s. CARNABUA, fatty grey, spot, 580s.; shipment, 530s., c.i.f.; prime yellow, spot, 870s.; shipment, 815s., c.i.f.

Essential and Expressed Oils

ALMOND.—Moroccan, 6s. per lb., duty paid.

ANISE.—Chinese, 7s. 7d. per lb., spot; shipment, 7s. 6d., c.i.f.

CANANGA.—Spot, from 42s. 6d. to 45s. per lb.

CASSIA.—Spot, 15s. 6d. per lb.; shipment, 15s., c.i.f.

CINNAMON.—From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot 9s. 9d. per lb.; rectified, 11s. 6d. per lb.; Seychelles, 8s. 6d., spot.

CITRONELLA.—Ceylon, spot, 6s. 10½d.; shipment, 6s. 7½d. per lb., c.i.f. Formosan, spot, 7s. in bond; shipment, 7s. 1d., c.i.f.

CLOVE.—Madagascar leaf, spot, 9s. 3d. per lb., duty paid; shipment, 7s. 10d., c.i.f. Rectified 87–88 per cent., 8s. 6d. Distilled bud oil, English B.P., 30s. to 31s.

CORIANDER.—B.P. oil is quoted from 62s. 6d. per lb.

GERANIUM.—Bourbon, 185s. per lb. on the spot.

JUNIPER.—B.P.C. 1949 oil is from 12s. 6d. per lb. on the spot. English-distilled, 180s. JUNIPER WOOD, from 5s.

LEMON.—B.P. grades from 16s. to 26s. per lb. on the spot. Californian for shipment 25s. to 28s. 6d., c.i.f. Terpeneless, 500s. per lb.

LEMONGRASS.—Spot, 13s. 3d. per lb., and shipment, 12s. 9d., c.i.f.

LIME.—West Indian distilled, 51s. per lb. on the spot.

NUTMEG.—Imported B.P. oil is 90s. per lb. English-distilled 100s.

ORANGE.—Spot quotations of sweet oil include Floridan at 4s. per lb.; West Indian, 5s. 6d.; Israeli, 7s. 6d.

PALMAROSA.—Spot, 30s. per lb., 27s. 6d., c.i.f.

PATCHOULI.—Penang is 34s., duty paid and 28s. 6d., c.i.f., per lb.

PENNYROYAL.—Spot, 15s. per lb.. duty paid.

PEPPERMINT.—*Arvensis*: Chinese spot, 37s. 6d. per lb. Brazilian, 16s. 3d. spot and shipment, 16s., c.i.f. *Piperita*: Italian "Mitcham-type" from 42s. 6d. to 48s. 6d.; American, 26s. to 30s., as to origin.

PETITGRAIN.—Paraguay, 19s. per lb., spot; shipment, 18s. 3d., c.i.f.

PIMENTO.—English-distilled berry, 167s. 6d. per lb.; imported, 77s. 6d. Rectified 27s. 6d. per lb. for small lots.

PINE.—*Pumilionis* on the spot is 16s. per lb.; *sylvestris*, 25s.; Siberian (*abietis*), 12s. 6d. to 14s.

ROSEMARY.—Spanish is 7s. 3d. per lb. on the spot for best quality.

RUE.—Spanish is 25s. per lb. spot.

SAGE.—Spanish, 9s. per lb.

SANDALWOOD.—Mysore, spot 105s. to 107s. 6d. per lb. East Indian, 105s. to 107s. 6d.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

TANGERINE.—From 24s. to 26s. per lb., spot.

YLANG YLANG.—Spot, from 32s. 6d. to 46s. per lb. as to grade.

UNITED STATES REPORT

NEW YORK, FEBRUARY 23: Industrial BENZENE for the manufacture of STYRENE and synthetic PHENOL was reported in tight supply position and there were no indications of any immediate relief in the shortage. MERCURY and MENTHOL are firm. A slightly better inquiry had developed in the market for SENECA.

WORLD TRADE

Venezuelan Prices Curbed.—Because of steeply rising prices of many goods in Venezuela during the past year public protests have caused the government to take action. The resulting overall reduction in pharmaceuticals has been close on 38 per cent. according to a report from Caracas.

Australia Eases Imports.—As a counter to the threat of cost and price rises brought about by recent wage increases, the Australian Government has decided to abandon virtually all import licensing. The Prime Minister (Mr. Robert Menzies) said in Canberra on February 21 that all imports would be unrestricted except by customs tariff, though it would be necessary for a time to retain licensing arrangements on certain commodities to meet problems arising out of existing commitments. The change, which was expected to operate from April 1, came into force on February 23.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," February 10

For all goods (5)

PRONEL, 789,540, by P. Leiner & Sons, Ltd., London, E.C.3. OCTAFLEX, 795,121, by Ward, Blenkinsop & Co., Ltd., London, W.C.1. TERIDOX, 795,317, by Killerm Co., Ltd., Cleckheaton, Yorks. SCORVITE, 796,366, by Wigglesworth, Ltd., Westhoughton, Lancs.

For pharmaceutical effervescent preparations in powder form for human use (5)

GRAPINE, 785,182, by Grapine (Pty.), Ltd., Jeppe, Johannesburg, South Africa.

For pharmaceutical preparations for treating hyperlipidaemia (5)

CLARIN, B785,814, by Thos. Leeming & Co., Inc., Manhattan, New York, U.S.A.

For pharmaceutical preparations for geriatric use (5)

GERANICAT, 791,823, by A.b. Bofors, Bofors, Sweden.

For pharmaceutical, veterinary and sanitary substances; infants' and invalids' foods; medical and surgical plasters, materials prepared for bandaging; material for stopping teeth, dental wax; disinfectants; and preparations for killing weeds and destroying vermin (5)

NICOPYRON, 791,959, by "Biosana," Dr. Med. Hans Krause, Eilendorf, nr. Aachen, Germany.

For sanitary towels, tampons and pads (being articles of sanitary clothing) (5)

SANELLA, 792,718, by S. Maw, Son & Sons, Ltd., New Barnet, Herts.

For pharmaceutical preparations and substances (5)

TOLAPAS, 793,470, by J. T. Smith & Nephew, Ltd., Hull, Yorks. DAVOID, 795,970, by H. C. Moore, Ltd., Darlaston, Staffs.

For pharmaceutical preparations for use in the treatment of the lips (5)

LABO, 794,029, by Edwin Thorp & Son, Bognor Regis, Sussex.

For deodorants, disinfectants and preparations for repelling and destroying insects (5)

GYVAP, 794,544, by J. R. Geigy, S.A. (J. R. Geigy, A.G.), Basle, Switzerland.

For preparations for the control of warble fly and ticks (5)

CO-RAL, 794,749, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For antiseptics, germicides and fungicides, all for industrial use (5)

PERMACHEM, 794,847, by Herbert Henry Brookes, Smallfield, Horley, Surrey.

For medicated confectionery and infants' and invalids' foods (5)

PALAVIT, 795,790, by Palatable Vitamin Products, Ltd., London, E.C.3.

For pharmaceutical preparations (5)

NETHAPRYN, 795,598, by Merrell-National

Laboratories, Ltd., London, W.1. POTABA, 796,743, by J. R. Cockton & Co., Ltd., London, W.C.1.

For non-medicated paper tissues (16)

HARLA-TEX, 791,882, by Alec R. Harland, Ltd., Bispham, Blackpool, Lancs.

For preparations for removing adhesive plasters, being pharmaceutical and veterinary substances (5)

PLASTAWAY, 795,939, by Eschmann Bros., & Walsh, Ltd., London, E.C.1.

For preparations for deodorising and freshening the atmosphere, insect repelling preparations, and insecticides (5)

SKUA, 795,950, by Mondart, Ltd., London, W.1.

For halibut-liver oil for pharmaceutical purposes and containing vitamin C; and preparations of vitamins A, D and C; all the aforesaid goods being sold in capsules (5)

SUNNIMAX, 796,269, by E. E. Warne & Co., Amersham, Bucks.

For photographic and cinematographic projection and viewing apparatus and photographic enlarging apparatus (9)

ASPECTAR, 794,970, by Veb Kamera und Kinowerk Dresden, Dresden, Germany.

For apparatus and instruments, and parts and fittings, all for use in colour photography (9)

COLORIX, 795,364, by Agfa, A.G., Leverkusen, Germany.

For face masks for wear over the nose and mouth for the purpose of preventing infection (10)

AZOTEX, STERIPAK, 795,870-71, by Alexander Carus & Sons, Ltd., Darwen, Lancs.

For surgical sutures and articles of clothing for surgical purposes, but not including stockings or socks (10) and for combs and sponges, all of plastics; small domestic utensils and containers of plastics or of synthetic textile materials; brushes, etc. (21)

PERLON, 786,385, 786,390, by Perlon-Warenzeichenverband Eingetragener Verein, Frankfurt-on-Main, Germany.

From the "Trade Marks Journal," February 17

For chemical products used in agriculture, horticulture and forestry (1)

ABADRIN, 795,230, by British Schering, Ltd., London, W.8.

PATENTS

(by permission, Controller, H.M. Stationery Office) British patent specifications are obtainable (price 3s. 6d.) from The Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"

February 17

Antibiotics foromacidins A, B, C and D, hydroxylated foromacidins and forocidines A, B, C and D and process for their manufacture. CIBA, Ltd. 832,627.

Pharmaceutical compositions containing salts of tetracycline or oxytetracycline. Pfizer Corporation. 832,424.

Separation of factors A, B and Z, from antibiotic E129. Glaxo Laboratories, Ltd. 832,571.

Concentration of tocopherols. Vitamins, Ltd. 832,572.

Process for preparing insulin. J. E. Jorpes and J. G. B. Linden. 832,456.

Dichloroxenol acetate and antifungal formulations containing it. Aspro-Nicholas, Ltd. 832,430.

Sterilants. Ben Venue Laboratories, Inc. 832,659.

Amino-alcohols and amino-esters. A. H. Beckett. 832,491.

Irradiation of starch. Union Carbide Corporation. 832,746.

Dispensing apparatus for use with containers. Metal Box Co., Ltd. 832,507.

Sterile packaging of sterile consumable material. Alpura, A.G. 832,595.

Supply receptacles for powdered or granular material. Machinefabrik Conlin, N.V. 832,471.

COMING EVENTS

Items for inclusion under this heading
Editor not later than first post on Wednesday of the week of insertion.

Monday, February 29

LONDON UNIVERSITY, Post-graduate Medical School, Ducane Road, London, W.12, at 4 p.m. Dr. B. Ackner on "Modern Drug Treatment of Mental Disorders."

NORTH-EASTERN HOSPITAL MANAGEMENT, NURSING AND HEALTH SERVICES EXHIBITION CONFERENCE, Newcastle-upon-Tyne, Northumberland (until March 4).

SURFACE ACTIVITY GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 5.30 p.m. Dr. E. G. Cockbain on "The Colloidal Stability of Natural Rubber Latex."

Tuesday, March 1

GLASGOW PHARMACY CLUB, Craig's tea rooms, 453 Sauchiehall Street, Glasgow, at 7.30 p.m. Whist drive.

LONDON UNIVERSITY, School of Hygiene and Tropical Medicine, Keppel Street, W.C.1, at 5.30 p.m. Dr. A. Isaacs on "The Anti-viral Action of Interferon."

MANCHESTER BRANCH, GUILD OF PUBLIC PHARMACISTS, Midland hotel, Dinner, dance.

Wednesday, March 2

NEWCASTLE AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, Assembly rooms, Westgate Road, Newcastle-on-Tyne, at 8 p.m. Dinner, dance.

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Freedom Fields hospital, Plymouth, at 7.30 p.m. Mr. H. W. Tomski on "The Economic Aspects of Pharmacy."

SOCIETY FOR ANALYTICAL CHEMISTRY, Queen's hotel, Stephenson Place, Birmingham, 2, at 5 p.m. Professor A. C. Frazer on "The Contribution of Analytical Chemistry to Medical Progress."

Thursday, March 3

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Halfway House, Luton Road, Dunstable, at 7.30 p.m. Dinner, dance.

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, at 7.30 p.m. Dr. N. J. Harper

should be sent in time to reach the

Wednesday of the week of insertion.

(Chelsea College of Science and Technology) on "The Relationship of Chemical Structure to Therapeutic Activity."

DURHAM BRANCH, PHARMACEUTICAL SOCIETY, Three Fins hotel, New Elvet, at 7.45 p.m. Talk.

HUDDERSFIELD BRANCH, PHARMACEUTICAL SOCIETY, Royal Swan hotel, Westgate, at 7.45 p.m. Talk.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, College of Technology, Romford Road, London, E.15, at 7 p.m. Dr. H. J. Barber on "A Chemist's Thoughts on Chemotherapy."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Medway College of Technology, Maidstone Road, Chatham, at 7.30 p.m. Dr. J. M. Pirrie on "Platinum Catalysts in Petroleum Refining."

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Technical College, Sunderland. Mr. D. A. Wrangham on "An Engineer Looks at the Modern Motor Car."

WEST HAM ASSOCIATION OF PHARMACISTS, Trocadero restaurant, Piccadilly Circus, London, W.1, at 6 p.m. Dinner, dance.

Friday, March 4

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 9 Bluecoat Chambers, School Lane, Liverpool, at 7.45 p.m. Dr. W. Kulke (Liverpool Radium Institute) on "Radio Isotopes in Medicine."

WALLASEY PHARMACISTS' ASSOCIATION AND BRANCH, Wellington hotel, at 8 p.m. Mr. H. W. Tomski on "The Economic Aspects of Pharmacy."

Advance Information

AGRICULTURAL GROUP, SOCIETY OF CHEMICAL INDUSTRY, Hoare Memorial hall, Church House, Westminster, London, S.W.1. Symposium on "Advances in the Chemical Analysis of Soils, Fertilisers and Plants." April 20-21.

INSTITUTION OF CHEMICAL ENGINEERS, The Dome, Brighton. "International Symposium on Distillation." May 4-6.

TELEVISION

Programme details are given to enable chemists to put in linking-up displays if they wish. Figures in the columns represent number of appearances of the product during the week.

March 6-12	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
Anadin	...	5	4	3	1	—	4	5	1
André Philippe hair lacquer	...	—	—	—	1	—	—	—	—
Andrews liver salt	...	—	—	—	—	—	—	2	2
Anne French preparations	...	2	—	1	—	—	—	—	—
Askit	...	—	—	—	12	—	—	—	7
Aspro	...	4	—	6	—	7	—	—	—
Beecham's pills	...	2	1	2	2	2	2	2	2
Beecham's powders	1	1	1	1	1	1	1	1	1
Bengers food	—	—	—	—	—	—	2	—	—
California syrup of figs	...	—	—	1	1	2	—	—	—
Cephos	...	—	—	3	—	—	—	—	—
Citroze	...	—	3	—	—	—	—	—	—
Coldrex	...	2	2	2	2	—	2	2	2
Coliclean	...	—	—	4	—	—	—	—	—
Cuticura	...	2	—	—	2	—	—	—	—
Delrosa	...	2	2	2	2	2	2	2	2
Delsey	...	3	—	—	—	—	—	—	—
Dixor products	...	1	3	—	2	—	—	—	—
Dristan	...	—	1	—	—	—	—	—	—
Euthymol tooth-paste	...	1	1	1	1	1	1	—	—
Germolene	...	2	1	1	2	2	1	2	4
Glovelies	...	—	—	—	—	1	—	—	—
Horlicks	...	3	3	3	2	3	3	3	2
Imperial Leather	...	2	2	2	2	2	2	2	2
Kleenex	...	1	1	1	2	1	1	1	1
Kolynos	...	—	1	1	—	—	1	—	—
Loxene shampoo	...	1	1	1	1	1	1	1	1
Loxene hair cream	5	3	3	4	4	3	3	4	4
Lucozade	...	4	2	2	—	3	3	3	3
Mac throat sweets	3	—	—	—	—	—	—	—	—
Marigold gloves	...	4	8	6	1	2	1	1	2
Max Factor	...	3	3	3	3	3	3	3	3
Mentholatum rub	1	—	—	—	—	—	—	—	—
Milk of Magnesia	...	1	—	—	2	1	1	1	1
tablets	—	2	2	—	—	—	—	—	2
Nemakol	...	1	1	1	—	1	—	1	—
Penetroil	...	—	1	1	—	—	1	—	—
Pepsodent tooth-paste	...	3	4	4	3	3	3	3	3
Phosferine	...	—	—	—	1	1	1	1	1
Phytolosan	...	1	1	1	—	1	—	1	—
Preparation "H"	...	—	—	1	—	—	—	—	—
Rennies	...	—	1	1	—	—	3	—	—
Ribena	...	3	2	2	—	2	3	2	1
Rinstead pastilles	...	1	1	2	4	1	2	—	3
Savril	...	—	—	—	—	—	2	—	—
Scotties	...	2	2	2	2	2	3	2	3
Sebbix shampoo	...	2	2	2	2	2	2	2	2
Setters	...	3	—	1	—	1	3	—	2
Sun Orange Quosh	—	—	—	—	2	—	—	—	—
Surgegrip gloves	...	3	3	3	3	3	3	3	3
Valderma balm	...	4	—	2	2	—	2	—	2
Valderma soap	—	2	—	—	—	—	—	—	—
Vaseline petroleum jelly	...	5	5	5	5	5	5	5	5
Vaseline medicated shampoo	...	5	2	5	—	—	—	—	—
Veno's cough mixture	—	1	1	1	1	1	1	1	1
Virol	...	—	1	—	—	—	—	—	—
Vykmix	...	1	1	1	1	1	1	1	1
Winspray	...	—	—	—	—	1	—	—	—
Zeph nasal spray	—	—	—	3	—	—	3	—	—

PRINT AND PUBLICITY

PRESS ADVERTISING

CANNON RUBBER MANUFACTURERS, LTD., Ashley Road, London, N.17; Modern anti-colic teats. In women's magazines.

IMPERIAL CHEMICAL INDUSTRIES, LTD., Pharmaceuticals Division, Fulshaw Hall, Wilmslow, Cheshire: Savlon antiseptic cream. In *Daily Express*, *Daily Mail*, *Daily Mirror*, *Daily Telegraph*, *Belfast Evening Telegraph*, *Empire News*, *Glasgow Sunday Post*, *Woman*, *Woman's Day*, *Nursing World*, *Feminine Six*, *Marilyn*, *Roxy*, *Valentine*, *Mirabelle*, *Family Doctor*, *Home & Family*, *Mother*, *Mother & Baby*, *Reveille*, *Weekend* and *Titbits*. Savlon 2-purpose barrier cream. In *Woman's Illustrated*.

Everywoman, *Good Housekeeping*, *Home, Housewife, Woman and Home* and *My Home*. LAUGHTON & SONS, LTD., Warstock Road, Birmingham, 14; Lady Jane hair beauty aids. In *Woman*, *Woman's Own*, *Woman's Day*, *Woman's Realm*, *Woman's Illustrated*, *Honey, She, Everywoman*.

MONAART, LTD., 49 Park Lane, London, W.1: Max aerosols. In *Daily Express*.

ORGAN LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: Endocil hormone cream. In *Woman's Weekly*, *Woman's Own*, *Woman's Journal* and *Housewife* during March.

P.C. PRODUCTS, LTD., Allerton, Bradford: New 1001. In *Daily Express*, *Daily Mirror*, *Daily Mail*, *Daily Herald*, *News Chronicle*, *Daily Sketch*, *Daily Record*, *Woman*, *Woman's Own*, *Woman's Illustrated*, *Today*, *Woman's Day*, *Woman's Realm*, *Homes and Gardens*, *Good Housekeeping*, *Ideal Home*, *Home, My Home*, *Woman and Home*, *Do It Yourself*, *Homemaker* and *Practical Householder*.

PEPSOENT, LTD., 449 London Road, Isleworth, Middlesex: Twink home permanent. In *Daily Mirror*, *Woman*, *Woman's Own*, *Woman's Mirror*, *Woman's Realm*, *Marilyn*, *Valentine* and *Roxy*.

STEWART, GOOALL & DUNLOP, LTD., 121A Princes Street, Edinburgh: Nueta egg and lemon shampoo and Nueta hair styling lotion. In *Woman's Realm*, *Woman's Own*, *Modern Woman*, *Woman and Beauty*.

THOMPSON & CAPPER, LTD., Speke Hall Road, Liverpool, 24: Mothak fly spray. In national daily and Sunday Press and women's weekly magazines. Parador concentrated floral disinfectant. In women's weekly magazines.

PUBLICATIONS

Booklets

MARCHON PRODUCTS, LTD., Whitehaven, Cumbria: Eltesol hydrotropes. Pp. 12.

FOR CUSTOMERS' CHANGE: Four trays produced by County Laboratories, LTD., Honey Lane, Stanmore, Middlesex, give counter-top publicity for Amami wave-set, Brylcreem, Silvikrin shampoo and Vosene respectively at the moment the customer is picking up his or her change on completion of a purchase.



C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 25 per cent.

B.M. LABORATORIES, LTD. (from March 1)

	Doz.	I.R.P.
Bemaphate tablets	25	45 0
dispensing pack	100	147 0

VERITAS DRUG CO., LTD. (from March 1)

	Each
Opilon tablets 5 mgm.	5 3 R
200	16 4 R

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

RIDDELL PRODUCTS, LTD.

	400 0	500 0
--	-------	-------

Pneumostat inhaler

	4	5	6
--	---	---	---

ADDITIONS TO THE LIST

GREENWOOD LABORATORIES, LTD.

	Doz.
--	------

Formula 21 7-day sachets	76 6	8 6
--------------------------	------	-----

pack

J. WATERHOUSE & CO., LTD.

Mathaplast antiseptic spray	49 0	5 6
-----------------------------	------	-----

bandage

DELETIONS FROM THE LIST

C. J. HEWLETT & SON, LTD.

Hewlett's anti-septic cream; Hewlett's teething jelly.

NEW PRODUCTS AND PACKS

B.M. LABORATORIES, LTD.

	25	45 0	5 7½ R
--	----	------	--------

dispensing pack	100	147 0	Each
-----------------	-----	-------	------

dispensing pack	500	61 6
-----------------	-----	------

BROOK, PARKER & CO., LTD.

Dispensing packs:

Broprin tablets	3 x 100	7 6
-----------------	---------	-----

Terpacol	4 oz.	3 4
----------	-------	-----

	8 oz.	5 10
--	-------	------

Tussinf	4 oz.	2 1
---------	-------	-----

	8 oz.	3 3
--	-------	-----

CIBA LABORATORIES, LTD.

Vecortenol	4 mils	15 8
------------	--------	------

	10 mils	35 4
--	---------	------

	5 7½ R
--	--------

RIKER LABORATORIES, LTD.

	Each
--	------

Norflex tablets	100	20 8
-----------------	-----	------

	500	93 0
--	-----	------

ROBERTS CHEMISTS (BOND STREET), LTD.

	Doz.
--	------

Kisby dry-shampoo powder*	21 0	2 9
---------------------------	------	-----

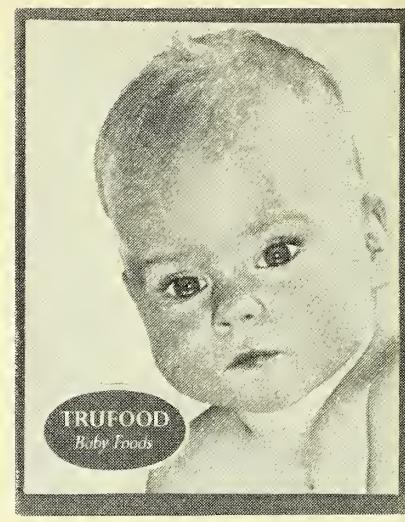
	50	6 8
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VELVET CREPE PAPER CO., LTD.

Soft tissues in colour

(* four-in-one pack)

2 0



MATTHEWS AND WILSON

For Your TABLETS

We have long experience in the
FORMULATION AND MANUFACTURE
of medicinal tablets of all types for
pharmaceutical organisations, hospital
authorities and proprietary houses,
both at home and for most countries
of the world—All standard B.P., B.P.C.,

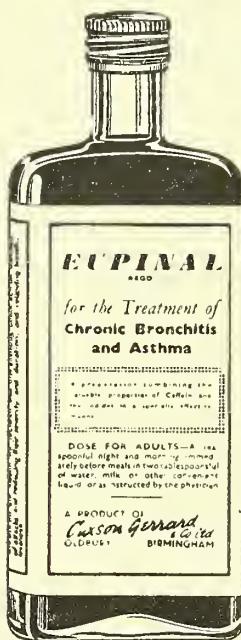
N.F. Tablets are stocked for
prompt delivery

**Customer's Materials Processed
Home and Export Inquiries Invited**

MATTHEWS & WILSON LTD.

Larkhall Works, Morrish Road, London, S.W.2. Tel:TULSE HILL 5881/2

For CHRONIC BRONCHITIS AND ASTHMA



Very profitable and regularly repeating counter sales can be built up with Eupinal, a line which has been successfully prescribed for many years.

We have received many letters of gratitude from sufferers who have obtained relief, and recommend you to feature this line prominently.

Eupinal contains the valuable properties of Caffeine with those of Iodides in an effective and stable form, and is suitable for children and adults. It is not a sedative and contains no poisons. In addition to being safe, it is effective—relieving mild Broncho-spasm and acting as an expectorant, thus helping to check the course of the disease.

EUPINAL

FROM
CHEMISTS
ONLY

4 ozs. TRADE: 28/- + 7/- P.T. Doz. Retail 4/2 each.

8 ozs. TRADE: 50/- + 12/6 P.T. Doz. Retail 7/4 each

Also available with Ephedrine.

A PRODUCT OF *Cuxson, Gerrard & Co. Ltd.* OLDBURY, BIRMINGHAM

VI-LAN Lanolin Cream



*the successful treatment
for rough or chapped skin*

Vi-lan is lanolin cream presented to the public in a most attractive pack and in a most convenient form. Customers are pleased with its effectiveness and continually repeat their orders, whilst our chemist friends gain the benefit of the generous profit margin.

Classified advertising in the *Sunday Express*, the *People* and the *Empire News* brings Vi-lan to the notice of almost all the households in the country. A constant display on your counter will ensure profitable business. Sample and bonus terms available on application.

THORNTON & ROSS
LIMITED

LINTHWAITE LABORATORIES
HUDDERSFIELD ENGLAND

★ RETAILS AT 1/6



made to measure

for **YOUR** market

The vast potential of the multi-vitamins market is but one of the spheres in which capsules are proving their tremendous advantages. They are easy to handle, attractive to look at, simple to take; yet soluble . . . and they *protect* the contents.

Capsules, in short, can add great sales appeal to *your* product, and at the same time iron out a lot of your production headaches. Add to all this the resources of the R.P. Scherer organisation . . . a complete *service unit* to handle every stage of encapsulating: production of pharmaceuticals to your own formula, material analysis and complete laboratory control, encapsulating and checking, packing and delivery. You maintain complete control of your formula, and have the exclusive use of the shapes and colours of your capsules. This service is at your disposal for experimental work too.

So why not contact R.P. Scherer now?



and a **MUST** for
MULTI-VITAMINS

R.P.
Scherer Ltd

216-222 Bath Road, Slough, Bucks. 'phone: Slough 21241



Family likeness

Every family has its own characteristics by which it is easily recognized; the M&B "family" of fine pharmaceuticals is known throughout the world for consistent purity and reliability. To maintain these high standards, every chemical and there are over 200 of them—undergoes strict analytical control in all stages of its manufacture.

You can place complete confidence in M&B brand pharmaceutical chemicals.

M&B for fine Pharmaceuticals

M&B
BRAND

BARBITURATES

ALLOBARBITONE B.P.C. • AMYLOBARBITONE B.P. • AMYLCARBONATE
SODIUM B.P.C. • BARBITONE B.P.C. • BARBITONE SODIUM B.P.
BUTOBARBITONE B.P. • BUTOBARBITONE SODIUM • CYCLOBARBITONE B.P.
HENOBARBITONE B.P.C. • METHYLPHENOBARBITONE B.P.C. • PHENOEARBITONE B.P.
PHENOBARBITONE SODIUM B.P. • QUINALBARBITONE SODIUM B.P.

Further information is available on request

MANUFACTURED BY

MAY & BAKER LTD

DAGENHAM · ENGLAND

Telephone: DOMINION 3060

Extensions 317, 318.



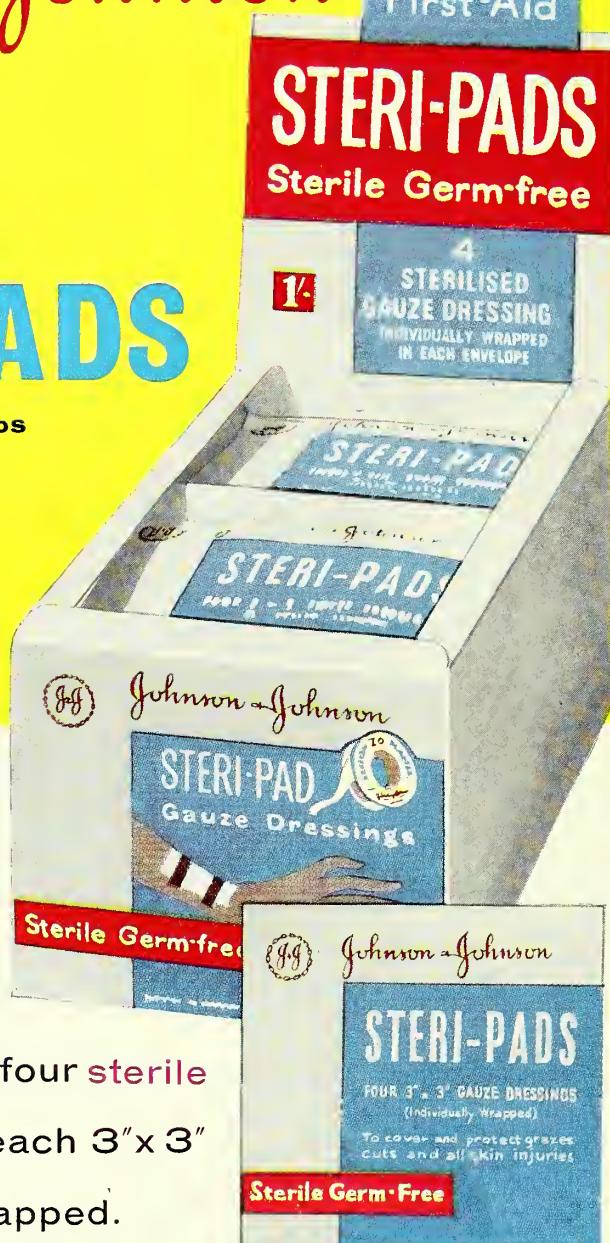
Johnson & Johnson

NEW

for Home
First-Aid

STERI-PADS

STERILE GAUZE PADS



To cover and protect grazes, cuts and all skin injuries. Packets of four **sterile** Gauze Dressings, each 3" x 3" and individually wrapped.

TRADE PRICE
8/- per doz.

Johnson & Johnson
(Gt. Britain) Ltd.

Slough, Bucks.

THE WORLD'S MOST TRUSTED NAME IN SURGICAL DRESSINGS



**-with every 3 doz
DABitoff
YOU ORDER**



Use this great chance to stock up ahead of demand for DABitoff. Demand there will be—look at the greater-than-ever advertising plans!

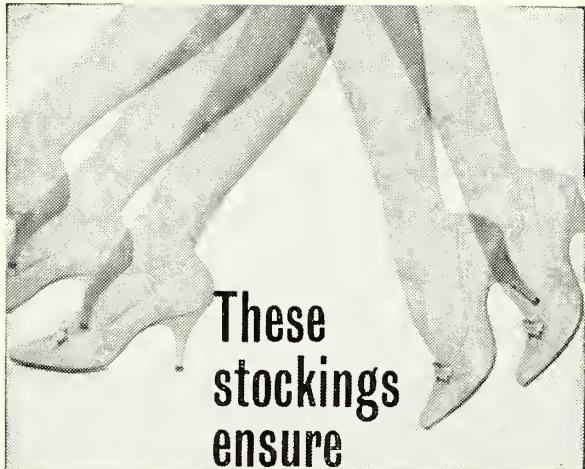
The bonus offer is open from March 1st to April 1st. Since DABitoff costs 22/6 a dozen and retails at 2/6, you'll see that this is a profit-making opportunity. Cash in right away—send your order to DABitoff distributors.

Fassett & Johnson Ltd, 86 Clerkenwell Road, London EC1

DABitoff in the press! In WOMAN, DAILY MIRROR and RADIO TIMES, strong DABitoff advertisements appear through April, May, June, July and September.

DABitoff

INSTANT DRY CLEANER WITH THE MAGIC PAD



These
stockings
ensure
REPEAT
BUSINESS

Because surgical stockings have a limited life, *somebody* must derive benefit from 'repeat sales' to customers with leg afflictions. That 'somebody' can be *you*—if you dispense 'Lastonet' Stockings on N.H.S. prescriptions brought to your shop. Here's why:

LASTONET Elastic Net Stockings, being made individually to each customer's own measure, provide better support, fit more accurately, and look better under the wearer's own nylons.

LASTONET airy-cool, open-weave elastic net fabric is wonderfully comfortable, and supports without chafing or restriction.

**FOR QUICK DELIVERY
EXCELLENT
PROFIT MARGIN
AND REPEAT SALES**



T8

Display Material and Measurements Forms from:

LASTONET PRODUCTS LIMITED, CARN BREA, REDRUTH, CORNWALL

**Bulk Suppliers of
DISINFECTANTS
& ANTISEPTICS**

CARBOLIC DISINFECTANTS

Black & White types—all strengths

MARKET & FARM DISINFECTANTS

Approved for use under Diseases of Animals Orders

PINE & AROMATIC DISINFECTANTS

LYSOL B.P.

QUATERNARY AMMONIUM COMPOUNDS

ROXENOL B.P., etc.

Packed in 1, 5, 10 and 40 gallon drums

PRINTAR INDUSTRIES LTD.

BRETENHAM HOUSE, LANCASTER PLACE,
STRAND, LONDON, W.C.2.

Telephone: TEMPLE BAR 5801 (8 lines)

Works:- PRINCE REGENT'S WHARF, SILVERTOWN, LONDON, E.16

Telephone: ALBERT DOCK 3311

VITAMIN D3

PURE CRYSTALLINE D3

**o-Cresol- α -glycerol-ether
(Mephenesin)
Guaiacol- α -glycerol-ether**

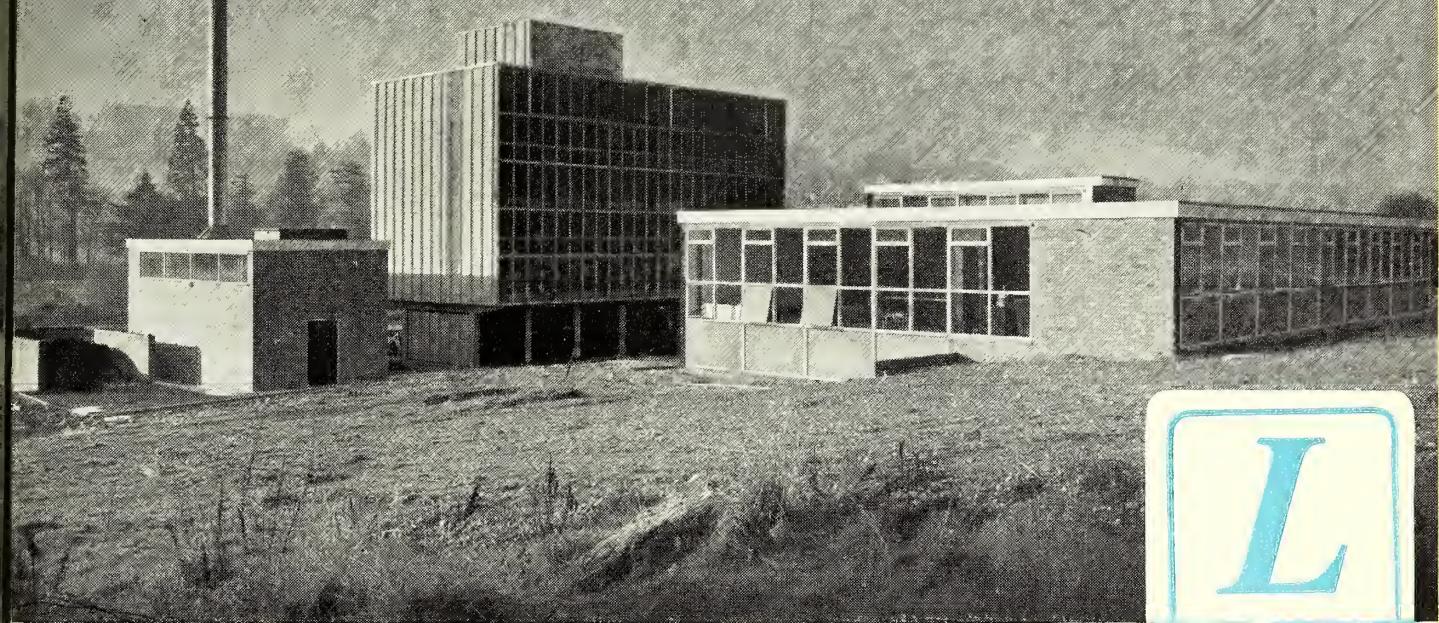
Manufacturers:

**PEBOC
LIMITED**

Sales Office:
629/630 TOWER BUILDING
LIVERPOOL 3 • ENGLAND

Laboratories:
NORTHOLT, MIDDLESEX

FINE CHEMICALS



Alkaloids and Salts

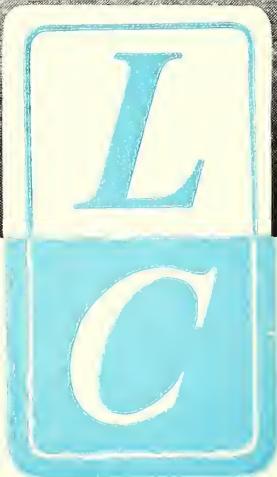
DIGITOXIN, EPHEDRINE, ERGOTAMINE, QUININE,
SANTONIN, STRYCHNINE, THEOBROMINE.

Hormones

CORTISONE, HYDROCORTISONE, ETHINYL OESTRADIOL,
METHYLTESTOSTERONE, OESTRADIOL, PROGESTERONE, PREDNISONE,
TESTOSTERONE, Etc.

Fine Chemicals

ACETAZOLAMIDE, AMIDOPYRINE, BARBITONE, BENACTYZINE, DICOUMAROL,
FOLIC ACID, MEPROBAMATE, PAS SODIUM, PHENOBARBITONE, PHENACETIN,
PIPERAZINE CITRATE, PIPERAZINE HEXAHYDRATE, SULPHANILAMIDE,
SULPHATHIAZOLE, TOLBUTAMIDE, VITAMINS B₁ and B₁₂, WARFARIN.



LAKE & CRUICKSHANK LTD.

MANUFACTURING CHEMISTS

NORTH BRIDGE ROAD · BERKHAMSTED · HERTS

Phone: Berkhamsted 1880/1/2

Cables: Lake Berkhamsted

ARE YOU TRYING TO
BE A MACHINE?

HOW OFTEN DO
YOU DO THIS?

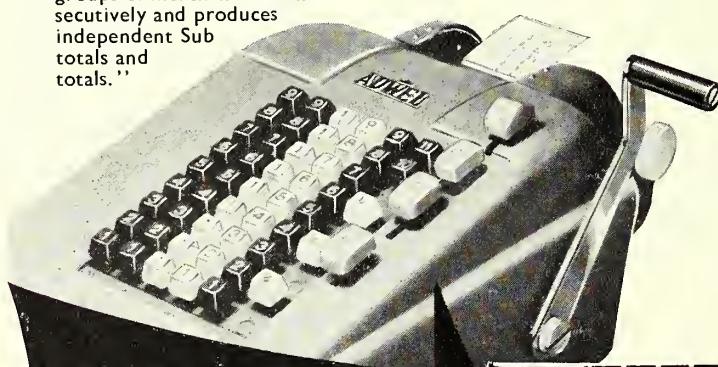
ERRORS CANNOT BE
AVOIDED THIS WAY



— AND THIS IS MONEY LOST!

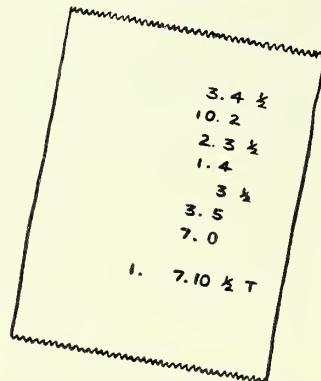
THE NEW ADWEL
GRAND TOTAL MACHINE

"This new multiple Register Machine enables you to list Debit and Credit Figures simultaneously, list two groups of merchandise consecutively and produces independent Sub totals and totals."



FOR
FURTHER
DETAILS.....

GIVES
YOU



- (a) THE CORRECT ANSWER
EVERY TIME
- (b) TOTAL OF YOUR DAILY
TAKINGS.

ADWEL ADDING MACHINES LTD.

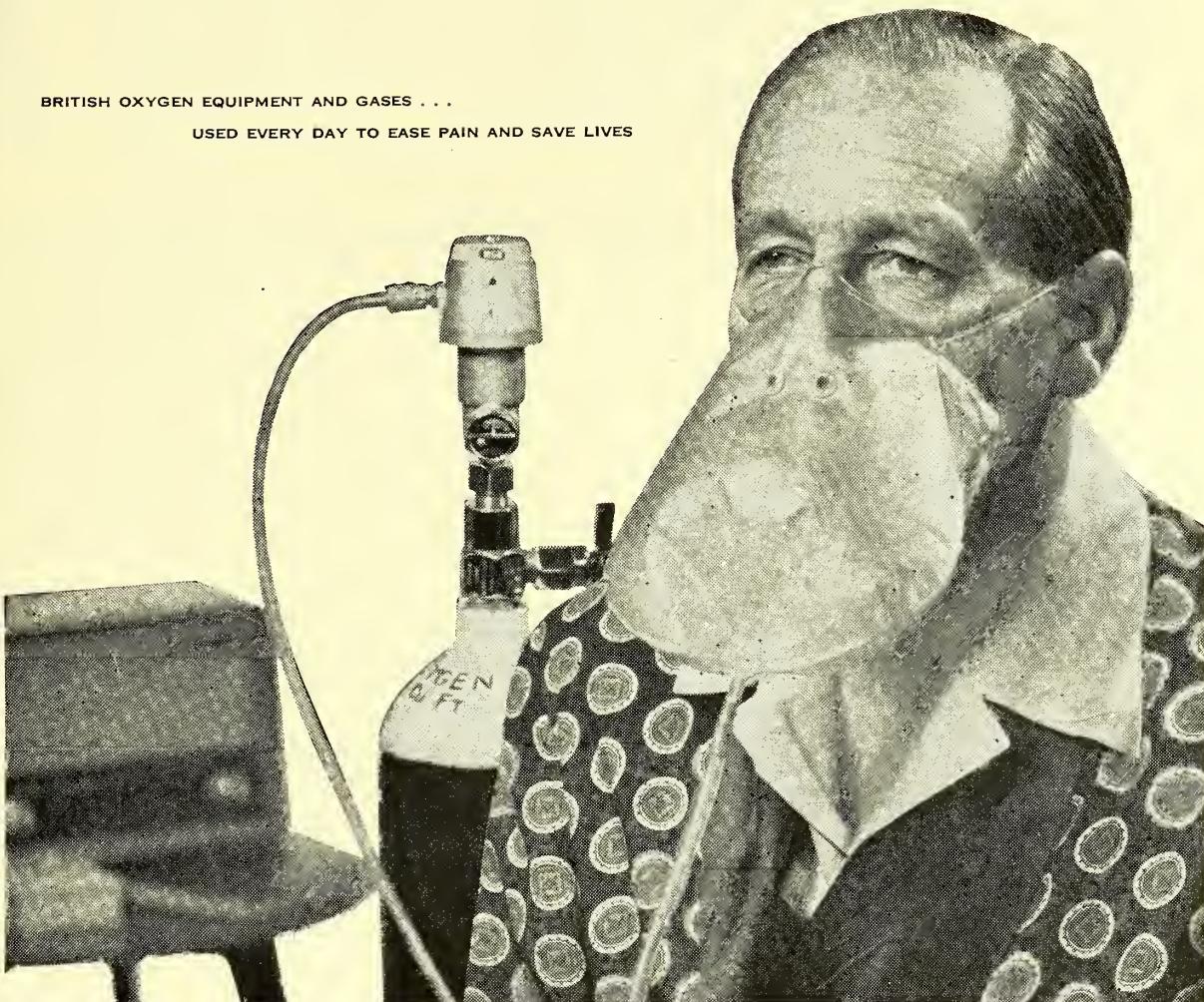
Dept. CD, 20 Pall Mall, London, S.W.1. Tel: TRA 2203/4

City Showrooms: 41 Finsbury Street, E.C.4 Tel: CHA 4112/3

Please send me details of Adwel "Grand Total" Adding Machine.

Name.....

Address.....



**"Please provide oxygen therapy set
with Polymasks - MS 500 48 cu. ft. oxygen"**

You might receive this prescription now that the new lightweight Single Unit Set for domiciliary oxygen therapy has been approved for use against E.C.10 orders. Developed by British Oxygen this equipment is robust, easy to operate, and is supplied with two disposable Polymask inhalers. This domiciliary oxygen therapy equipment is now an essential item in a chemist's stock.

*For demonstration and full details of how to purchase or
hire this equipment, please write to*



BRITISH OXYGEN

British Oxygen Gases Limited
Medical Division, Great West Road, Brentford, Middlesex.

1001 — NEW

Big News Release timed for March 18



*LOOK-IN on March 13
for our Managing
Director's Special T.V.
Announcement.*

*LOOK-OUT for NEW
Extra-lively 1001—
there's 33½% for YOU.*

**PEAK-TIME T.V. ON
ALL STATIONS.**

UNIQUE NEW FILMS
launch 1001's latest fast-
seller with **36 MILLION**
home impacts.

FULL PAGES
in
EXPRESS
and
MIRROR
on
MARCH 18TH

1001's BIGGEST-EVER SALES CAMPAIGN launches NEW Quin-Quality 1001 this Spring. This means a bigger-than-ever T.V. campaign. And MORE... it means huge spaces in the largest National newspapers almost EVERY DAY FOR THREE WEEKS will sell your customers NEW 1001 during 1960's peak Spring-cleaning period.

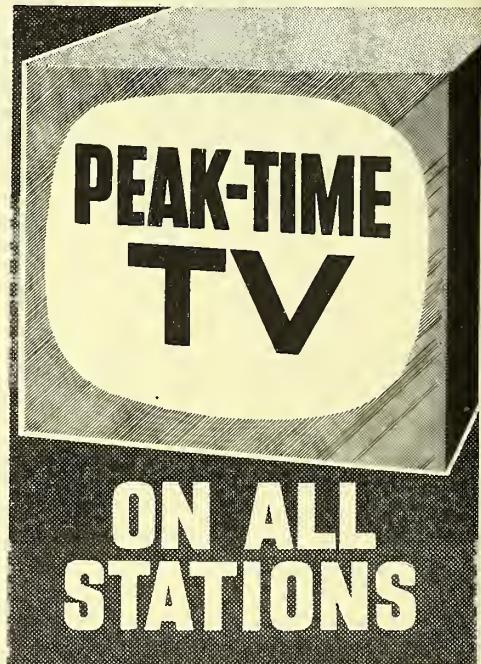
**101 MILLION 1001 ADVERTISEMENTS THIS SPRING . . .
OVER 110 MILLION READERS**

FULL PAGES—Express and Mirror.

HALF PAGES—Daily Mail, Daily Herald, News Chronicle, Daily Sketch . . . and (for Scotland) Daily Record.

PLUS $\frac{3}{4}$ PAGES—Woman, Woman's Own, Woman's Illustrated, John Bull, Woman's Day, Woman's Realm.

PLUS $\frac{1}{2}$ PAGES—Homes & Gardens, Good Housekeeping, Ideal Home, Home, My Home, Woman & Home, Do It Yourself, Homemaker, Practical Householder.



ORDER IN TIME - DISPLAY IN TIME - PROFIT NOW!

THERE'S $33\frac{1}{3}\%$ FOR YOU!

Trade Enquiries to: P.C. Products Ltd., Allerton, Bradford. Tel.: 46404-5-6. 33 Union Street, Southwark, London, S.E.1.
Tel.: HOP 2841-4136.

QUIN-QUALITY!

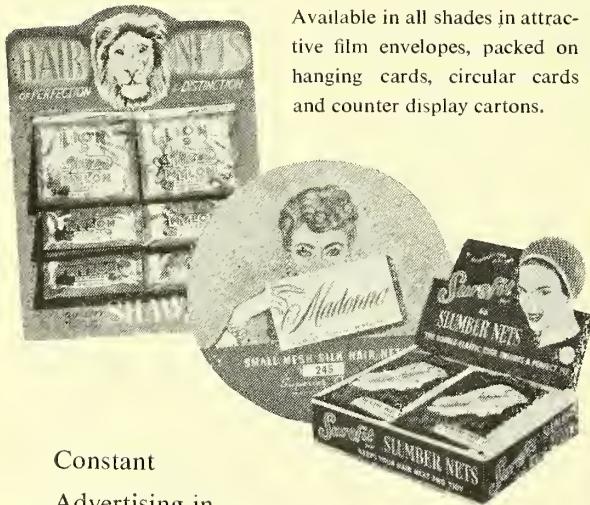


DISPLAY AIDS THAT MAKE EXTRA SALES

OF LION NYLON HAIRNETS

SUREFIT Slumber Nets, MADONNA Triangular Setting Veils, MADONNA Silk Hair Nets, LION Bun Nets, VENUS Imitation Human Hair Nets. SHAW Products are famous throughout the world for their consistently high quality, invisibility in wear, and wonderful durability.

Available in all shades in attractive film envelopes, packed on hanging cards, circular cards and counter display cartons.



Constant
Advertising in
National Magazines make SHAW Products
the automatic choice for the women of
today.

ROBERT SHAW

AND CO., LTD.

ASCOT ROAD

NOTTINGHAM



a
BEST-SELLER
ALL
the year
round



'NIAGARA' VITAMIN 'C' Blackcurrant Syrup

Niagara—made from Blackcurrant juice and sugar... rich in health giving Vitamin 'C'... delicious, the perfect drink for young and old alike.

ORDER FROM YOUR WHOLESALER NOW!
PROCESSED BY

BARNETT & FOSTER LTD

Queensbridge Road, London, E.8.

Tel: CLIssold 7132
AP.115

"RELIANCE NATURAL SPONGES"



Natural Deep Sea Sponges

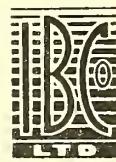
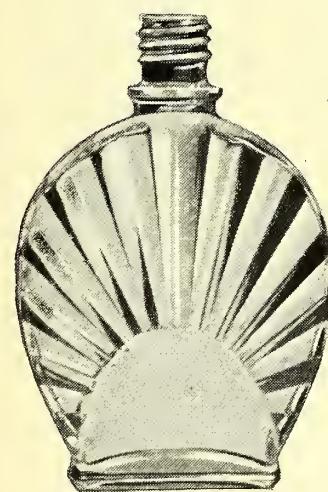
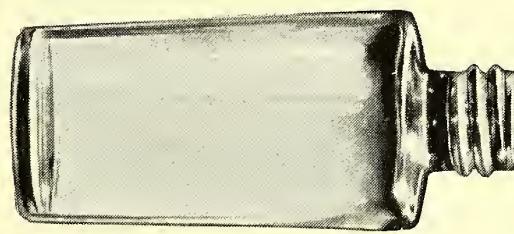
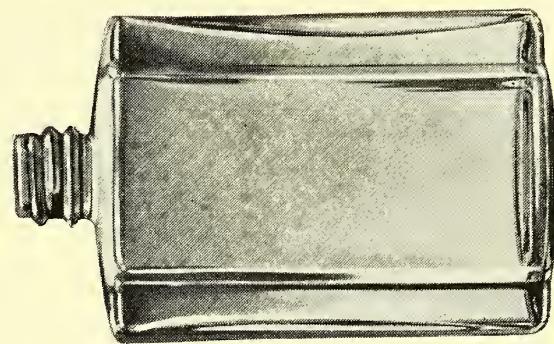
To display a natural deep sea sponge is to sell it—because discriminating customers know that it is softer and kinder to the skin, and more lasting and more hygienic than any substitute—as well as holding three times as much water.

Cresswell's offer the best of the sponge crop. Please write for our price lists, and when in the West End of London a visit to make your own selection is welcomed.

CRESSWELL BROS. SPONGES

3-9, EARLHAM STREET, CAMBRIDGE CIRCUS, LONDON, W.C.2
TELEPHONE TEMple Bar 5331

*Designers and Manufacturers of
High Quality Glassware*



THE INTERNATIONAL BOTTLE CO., LTD.

140 PARK LANE LONDON W.1

Telephone MAYfair 6992 (5 lines) Telegrams AUTREFOIS, AUDLEY, LONDON



PRIDE

hair beauty PREPARATIONS

sell on sight!

Spraying ^{HAIR} Lacquer

Retails at 3/6

The finest of hair lacquers with a delightful perfume available in the new Super Spray 2½ oz. polythene bottle (various colours) in attractive individually packed cartons, and boxed in 1 doz. units in eye-catching display outers. Refill sachets also available packed in 2 doz. outers retail at 2/3.



Egg and Lemon

CREAM SHAMPOO Retails at 3/9

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d.; 3 individual shampoos linked together 10½d. all packed in well-designed display outers.



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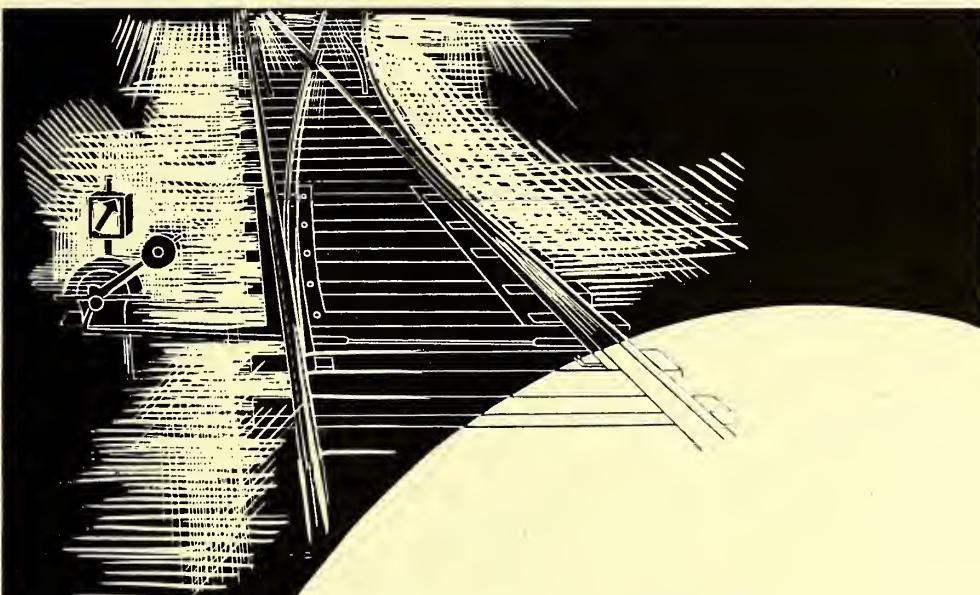
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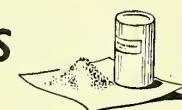
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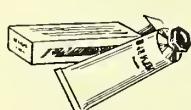
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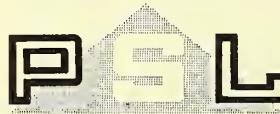


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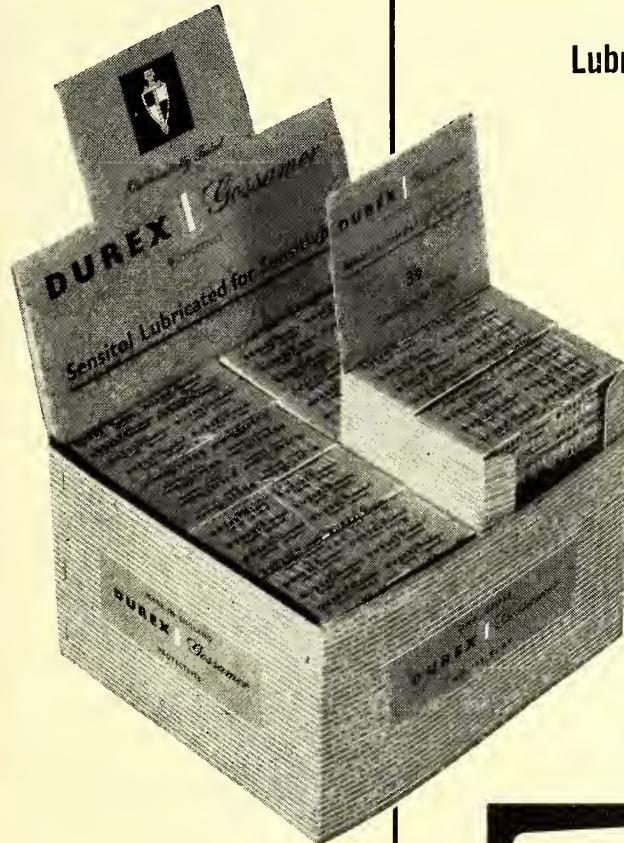
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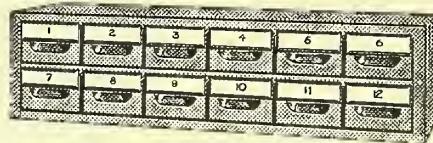
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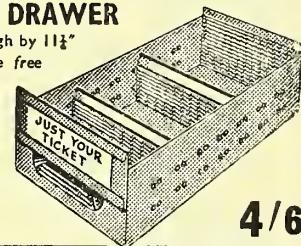


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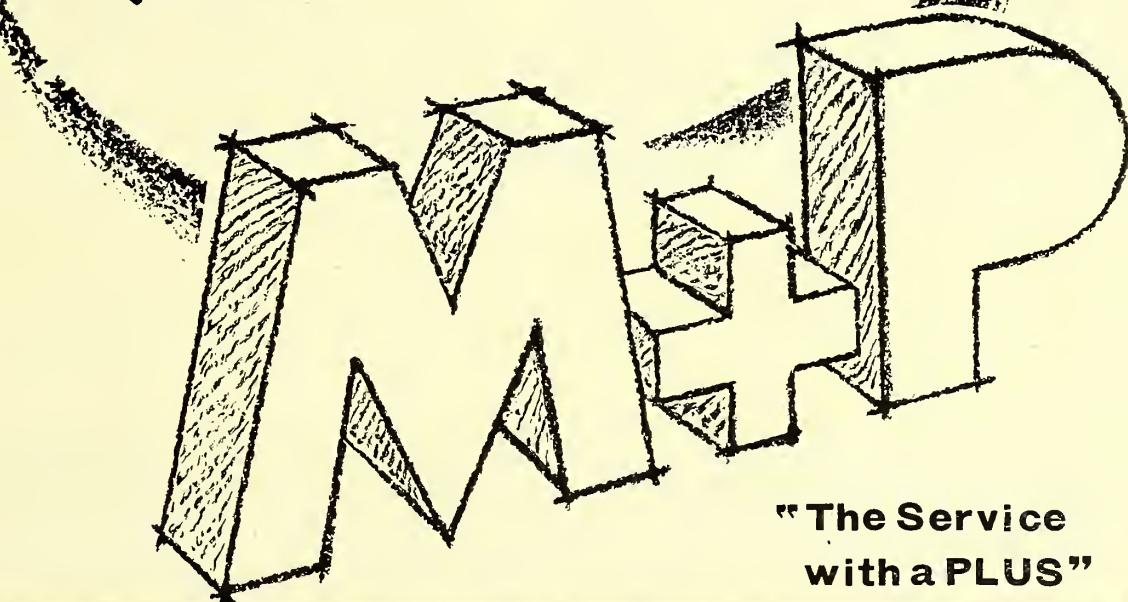
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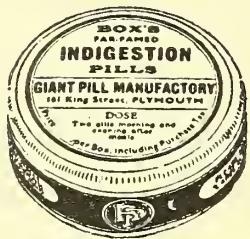
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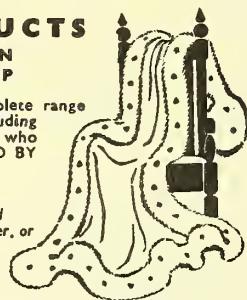
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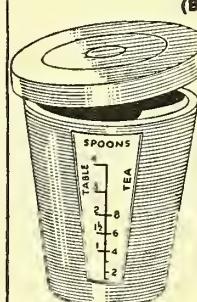
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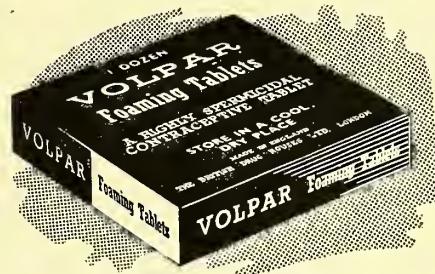
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required. Engaged almost exclusively on preparation of sterile solutions in small but well equipped department.

Assistant-in-Dispensing

required. Whitley Council salary and conditions. Applications naming two referees to Hospital Secretary. C 5152

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HAMMERSMITH, W.6

Assistant-in-Dispensing

required. Whitley scale of pay and conditions. Applications to Secretary. C 5192

FRIERN HOSPITAL, LONDON, N.11

Locum Pharmacist

required from July 4 to August 27, inclusive. Salary £18 18s. per week to July 23, then £16 16s. per week. Apply to Physician Superintendent. C 5191

KENT COUNTY OPHTHALMIC AND AURAL HOSPITAL, MAIDSTONE

Locum Chief Pharmacist

required for period May 30 to June 11, 1960. Salary 18 gns. weekly.

Applications with names and addresses of two referees to the Group Secretary, Mid-Kent Hospital Management Committee, 103 Tonbridge Road, Maidstone. C 5198

LEYTONSTONE (No. 10) HOSPITAL GROUP,

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(Category V Hospital)

Pharmacist

Applications are invited for the above post. Applications for part-time Pharmacists will be considered. The hospital is ideally situated, being on the Central Underground Line within 20 minutes of Central London.

Application forms from the Hospital Secretary, to be returned as soon as possible. C 492

READING AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE

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required at the Royal Berkshire Hospital, Reading (Category V). Six pharmacists with full supporting staff. Frequent five-day weeks. Commencing salary, new entrants, up to £730 p.a. based on previous professional experience and National Service after qualifications. Applications to Group Pharmacist, Royal Berkshire Hospital. C 5128

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J. P. MALLETT,
 Group Secretary,
 C 5183

184 STRAND, W.C.2

Tel: TEMple Bar 9212/3 & 6340

ROYAL FREE HOSPITAL

Pharmacist

Applications are invited for the above post at this Hospital. Salary in accordance with the Whitley Council scale with extra pay for evening clinics. Applications, with names of two referees, should be addressed to the Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 5155

ST. ALBANS CITY HOSPITAL (394 beds)

NORMANDY ROAD, ST. ALBANS, HERTS

Senior Pharmacist (Category III)

A vacancy will occur on 1st April, 1960, at the above general hospital within easy reach of Central London. An opportunity will exist to help in the development of the pharmaceutical department of the new Welwyn/Hatfield Hospital and there may also be prospects of promotion in the future. Whitley Council salary and conditions.

Applications stating age, qualifications and experience, together with the names of two referees, to the Chief Pharmacist. C 514

ST. BARTHOLOMEW'S HOSPITAL, LONDON, E.C.1

Locum Pharmacist

required for three weeks, £18 18s. per week. Apply, in writing, to Chief Pharmacist. C 5195

ST. HELIER HOSPITAL, CARSHALTON, SURREY

(763 beds)

Assistant-in-Dispensing

required for general dispensing duties in busy department. Experience of sterilising techniques an advantage. Canteen facilities available. London Weighting payable. Applications with the names of two referees to Secretary. C 5136

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required in Pharmaceutical Department for varied duties. Salary up to £560 per annum including London Weighting and additional payment of £20 per annum for suitable qualifications. Apply giving names of two referees to the Chief Pharmacist, telephone: BERmondsey 4311. C 509

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HENRIETTA STREET, W.C.2**

Locum Pharmacist

(Central London) required for following period: September 12—October 15. Salary not less than 18 gns. per week. Apply immediately to House Governor. C 5175

**ST. OLAVE'S HOSPITAL,
LOWER ROAD,
ROTHERHITHE, S.E.16**

Senior Pharmacist

Applications are invited for appointment at the above hospital. Salary up to £895 per annum including London Weighting. Applications stating age, qualifications and experience and giving the names of two referees to the Hospital Secretary. C 510

**TILBURY & S.E. ESSEX
HOSPITAL MANAGEMENT
COMMITTEE**

Temporary Pharmacist

required on a full or part-time basis for holiday relief duties, from April 4 to September 12, inclusive, or for parts of that period. Whitley Council scale of salary. Interested persons should address their applications to the Group Secretary, Thurrock Hospital, Grays, Essex. C 5193

**WEST PARK HOSPITAL,
EPSOM, SURREY**

Assistant-in-Dispensing

(with Apothecaries' Hall Certificate) required in active psychiatric hospital. Salary and conditions of service in accordance with National Health Service Regulations. Applications with the names of two referees should be sent as soon as possible to the Group Secretary, who will be pleased to provide further information on request. C 5138

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LOCUM required from April to October 1960. Apply to: Superintendent Chemist, P.C.S. Pharmacy Office, Vauxhall Street, Plymouth. C 2736

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REQUIRED, unqualified dispenser or counter assistant for two weeks, July 4 to 16 or July 11 to 23. Hours 9 a.m. to 6 p.m. Wednesday half-day: no Sunday duty. J. Martin's Cash Chemists, Ltd., 18 Crown Lane, Morden, Surrey. C 2732

RETAIL (OVERSEAS)

MALE EUROPEAN PHARMACIST required by British company for service in one of their branches in West Africa as branch manager. Interesting position with opportunity for advancement. Tours of eighteen months with subsequent leave of approximately four months on full pay. Progressive salary. Free furnished accommodation in West Africa. Passages paid. Free medical attention. Low income tax. Contributory pension scheme. Initial kit allowance. Applicants should be under 35 years of age and preferably single. Reply giving full details of age, experience, etc., to West African Drug Company, Ltd., Spinney House, Church Street, Liverpool. C 2743

QUALIFIED CHEMIST required for retail pharmacy in Southern Rhodesia. Salary to commence £100 per month. One calendar month's leave each year accumulated if desired up to three years. Interviewing will be arranged second week in March. Write: Chemist, c/o Warden & Hotchkiss, Ltd., 41 Clement Street, Birmingham, 1. C 500

WHOLESALE

ABBOTT LABORATORIES, LTD., wish to appoint a deputy to the manager of the pharmaceutical development laboratory concerned with the formulation of new products. The candidate should possess a pharmaceutical qualification and have had experience in production or preferably development work. The position offers excellent prospects to the right person and the company have many employment benefits. The appointment will be in the North-east until the end of 1961 when all activities of the company will be transferred to new laboratories in Kent. Please apply, giving full details of age, education and career to date, to the Secretary, Reference H.L., Abbott Laboratories, Ltd., Bede Trading Estate, Jarrow-upon-Tyne, co. Durham. C 2730

ASSISTANT SALES MANAGER required by sole distributors of exclusive proprietary health foods selling to high-class chemists, etc. Splendid opportunity for man with creative sales ability. Write fully to Box C 5196.

A STARTING SALARY of £800 per annum, substantial commission potential, company car, expenses and other benefits are offered to salesmen of ability aged 23-35 years who have had a successful sales record in selling to chemists or hairdressers. There are excellent prospects of early promotion in our rapidly expanding group of companies selling heavily advertised toiletry products, under an internationally famous brand name. Due to expansion there are immediate vacancies in the Midlands, North East, Home Counties and London areas. Send full particulars to Box C 2704.

**DEVELOPMENT CHEMIST**

Applications are invited from male graduate chemists or pharmacists for vacancies in the Product Development Department of Boots Pure Drug Co., Ltd., at Beeston, Nottingham. The work involves the formulation and testing of a variety of products for veterinary, horticultural and pharmaceutical purposes in well-equipped laboratories. Applicants should be preferably under 30 and have the ability to carry through a formulated product from its development stages to production. The positions are permanent and pensionable. Applications should be addressed to the Personnel Manager, 37 Station Street, Nottingham, quoting reference No. (Ref.: C.D.1). C 5178

BOTTLE SALESMAN WANTED. Salesman/Representative with previous experience in selling bottles, pars, and screw caps. Write, giving full particulars to Reliance Trading Co., 75 Fairfax Road, London, N.W.6. C 5148

ROCHE

THE CHANCE OF A STEADY CAREER

Opportunities are offered to outstanding young men with drive and initiative wishing to start as medical representatives. A pharmaceutical qualification/experience or equivalent academic attainment essential. Vacancies occur in:—

1. London (East) and Essex.
2. Leicester and South Staffordshire.
3. Northumberland and part of Durham.

Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First-class candidates desiring success and security should apply with full details to the Secretary, Roche Products Limited, 15 Manchester Square, London, W.1. Applications will be treated as confidential.

C 5132



DEVELOPMENT CHEMISTS FOR STERIOD PRODUCTION

Wyeth International Limited, U.S.A. require Development Chemists to initiate Steriod Production. They will be expected to have experience in the field and to be willing to work in the U.S.A. and Far East. Men of high calibre and initiative should apply to the Personnel Officer, Wyeth International Ltd., Clifton House, Euston Road, London, N.W.1. for further information.

The terms for these key posts will be most generous. Permanent employment by the Company is envisaged and there will be good opportunities for promotion.

C 5174

C I B A

MEDICAL REPRESENTATIVES

Applications are invited from pharmacists to fill the vacancies listed below. These vacancies arise from an expansion scheme. Previous experience is unnecessary as the selected men will be trained. Progressive salary and pension scheme. Car provided and full expenses paid.

NORTH of SCOTLAND
BIRMINGHAM (part)
MIDDLESEX
EAST ANGLIA (part)
KENT

DERBYSHIRE & (part) STAFFORDSHIRE
SHROPSHIRE & WORCESTERSHIRE
CAMBRIDGESHIRE & part LINCOLNSHIRE
WILTSHIRE & part GLOUCESTERSHIRE
DEVON & CORNWALL

Apply in writing with particulars of age, education, qualifications and experience to :

The Sales Manager

CIBA LABORATORIES LTD., HORSHAM, SUSSEX

C 5158

Situations Vacant—Continued

FREE-LANCE REPRESENTATIVE required to take up two Dutch pharmaceutical lines (extremely popular on Continent). Good commission. Telephone: 10 to 1, HENDon 9449. (Ursula-Ruth, Ltd., Pollard Road, London, N.W.9.) C 5142

INTERNATIONAL PHARMACEUTICAL COMPANY

wish to appoint a man under 30 years of age as an Assistant Production Manager in their London office. The successful applicant will have a university or technical college qualification in engineering, chemistry or pharmacy, and will have had between 3 and 5 years' experience of production management including knowledge of commercial aspects of a business in the chemical or pharmaceutical industry. Good salary and excellent prospects. Reply to Box C 5189.

MANAGER for surgical sundries department, wholesale house, experienced buying all classes chemists' sundries for existing department, having important turnover. Age 35-45. Salary according to experience. Pension scheme. Apply Staff Director, Ayrton Saunders Company, Hanover Street, Liverpool. C 5171

PARKE, DAVIS & COMPANY

Invite applications from pharmacists for a junior executive position in their pharmaceutical manufacturing division. The position involves the supervision of groups of process workers and offers an opportunity to gain wide experience in modern large-scale production methods. Some experience of tablet compressing and coating whilst desirable is not essential.

The terms of employment with the Company are attractive and include a generous salary, pension and life assurance plan, and a five-day week.

Please apply in writing to:
Personnel Manager,
Parke, Davis & Company,
Staines Road,
Hounslow, Middlesex.

C 5190

PHILIP HARRIS, LTD., require two gentlemen to represent them on existing territories, one to reside in the Southern Counties, the other in the West Country. Candidates, who should be between 23 and 40, need not be pharmacists but should have a sound pharmaceutical background and some knowledge of surgical instruments. Experience of calling on the medical profession as well as the retail chemist would be an advantage. Remuneration by salary and commission. All expenses paid, company car provided. Replies to Staff Director, Philip Harris, Ltd., Edmund Street, Birmingham. C 5167

REPRESENTATIVE FOR NORTHERN IRELAND. A leading company of distributors marketing advertised pharmaceutical and toilet products requires an experienced representative, resident on the territory, to maintain and develop a well established connection in the pharmaceutical field. Remuneration by salary, expenses and bonus. Non-contributory pension scheme. A company car is provided. Full particulars of experience, salary required and age to Box C 5184.

REPRESENTATIVE/SALESMAN for brushes and fine leather goods to work from London showroom, wholesale and export. Must have knowledge of trade. Important turnover exists. Give full history and present salary. Box C 2741.

STAFFORD ALLEN & SONS, LTD., require a laboratory assistant (male), preferably with pharmaceutical experience, for development work in the food industry. Write, stating age, experience, etc., quoting ref. DWC, to the Secretary, 20 Wharf Road, London, N.1. C 5177

THE CROOKES LABORATORIES LIMITED

require a representative for the Republic of Ireland, preferably resident in Cork.

A pharmaceutical qualification is essential. The appointment is superannuated and well remunerated with progressive salary, adequate expense allowance and commission directly associated with territorial results. Promotion is possible either in the republic or to overseas positions. Only candidates with keen desire to progress should apply in writing with full details regarding age and past experience to the Home Sales Department (2), The Crookes Laboratories Limited, Gorst Road, Park Royal, N.W.10. C 5187

THE CROOKES LABORATORIES LIMITED

require representatives for the following territories:—

(1) Kent and Sussex	(3) North Yorkshire
(2) North Lancs., Westmorland, Cumberland	(4) Essex and East London

A pharmaceutical qualification or adequate technical background is essential. The appointments are superannuated and well remunerated with progressive salary, adequate expense allowance and commission directly associated with territorial results. Promotion is possible either in the U.K. or to overseas positions. Only candidates with keen desire to progress should apply in writing with full details regarding age and past experience to the Home Sales Department (1), The Crookes Laboratories Limited, Gorst Road, Park Royal, N.W.10. C 5186

REPRESENTATIVE WANTED. Calling on chemists and surgical appliance dealers, to sell an established line, in daily demand. Small sample, good commission basis. Write, giving usual details, in strict confidence. Box C 2722.

REPRESENTATIVES WANTED

Representatives wanted for nationally advertised pharmaceutical proprietary. Permanent appointment for keen men with experience in selling. Salary, bonus, car, expenses, pension scheme. Requirements: Age 24-32 years; good background and educational standard; mobility; a zealous desire to work hard in the field of selling to achieve success. Write a brief letter to the Sales Manager, Box C 5180, enclosing typed summary of education and experience with recent photograph, which will be returned.

STOCKTAKER (resident in London area) with some retail or wholesale experience (not necessarily in stocktaking itself) required by well-known firm of professional Valuers; good basic salary which will be supplemented by a bonus. The position also offers excellent prospects in return for efficient service. Please write, initially, under guaranteed assurance of confidence, with brief details of career to date and stating present salary to Box C 505.

TRAINEE

Young man, aged about 21, completed military service, good G.C.E. passes, good personality, required as trainee. A promising career awaits a young man of ability who is not afraid of hard work and who has the will to succeed. Initially the selected applicant will work in the Domestic Sales Office. Write a brief letter to the Sales Manager enclosing summary of personal details and experience to date: Box C 5181.

TABLET MAKER required, capable of managing department producing sugar confectionery situated in London. Box C 2724.

TABLET MAKER AND TABLET COATER. Applications are invited for these positions from individuals interested in widening their present experience in either branch of the industry. N.W. London factory. 5-day week. Pension scheme. Write giving details of career to date. Box C 5194.

WAREHOUSE Despatch and Transport Superintendent required by old-established manufacturing wholesale chemists in North London. A man of energy and initiative required to organise and integrate the work of these sections. Good disciplinarian; experience in wholesale distribution and transport essential. Progressive opportunity for educated, conscientious applicant. Salary about £800. Apply Box C 2740.

YOUNG PHARMACIST required by progressive pharmaceutical manufacturers for process duties in their production unit. Previous experience in manufacturing is not essential. Five-day week, canteen facilities and pension scheme. Apply in writing to Works Manager, Roussel Laboratories, Ltd., 847 Harrow Road, N.W.10. C 5182

WHOLESALE (OVERSEAS)

GHANA: SENIOR EXECUTIVE. A leading pharmaceutical company requires the services of a sales executive to manage the affairs of its branch office in Tema. Experience within the pharmaceutical industry is essential. The successful applicant, within the age group of 26-35, will have gained wide sales and administrative experience in the promotion of medical products for preference and experience in allied fields would be an advantage. A training course in the U.K. will precede the appointment. Applicants should submit full details of career and qualifications, together with a recent photograph, to Box C 5188.

AGENTS WANTED

AGENT required for Midlands with connection with chemists, drug stores, pet shops and corn and seed merchants, to sell from his vehicle on generous terms a good product established five years ago but not recently represented. Box C 2739.

AGENTS for high-class Polarised sunglasses. Few samples. Good commission. Nupro, Ltd., 2 Netherwood Street, London, N.W.6. C 2717

AGENTS REQUIRED

for nationally advertised pharmaceutical products in
ALL AREAS

Apply:
Roberts Chemists (Bond Street), Ltd.,
76 New Bond Street, W.1.
Mayfair 4173 C 2725

AGENTS WANTED. Scotland and East Coast England. Established connections. Good-class photographic chemists. New and already fast-selling photo lines. Excellent commission. Please supply details other lines carried and territory. Box C 2711.

AGENTS WANTED: The sole distributors of exclusive health foods selling to high-class chemists seek sales agents in Sussex, Kent, Greater London, Lancashire, Oxfordshire, North Wales and Scotland. Write fully to: Tom E. Hobson, Ltd., 46 Crooked Billet, London, S.W.19. C 5197

COMMISSION AGENTS carrying one or two exclusive products, calling on chemists, required for exclusive territories throughout Gt. Britain. Please send details, including lines carried, to Box C 2737.

FIRST-CLASS AGENTS required for the following areas: N.E. territories, Wales, Midlands, Eastern territory (Norfolk, Suffolk, Hunts, Cambs, Kent, Essex), by progressive cosmetic company with fast-selling popular lines. Good retail connection an advantage. Generous commission on both retail and wholesale trading. Reply immediately with full details. Box C 5170.

SITUATIONS WANTED

WHOLESALE

ADVERTISING: Freelance copywriter of outstanding creative ability can accept further work of a medical and chemical nature. Box C 2731.

REPRESENTATIVE, elderly, first-class records ex. connection London and Home Counties chemists, wholesale and retail, and stores, offers energetic representation. Write Box C 2745.

YORKSHIRE area, energetic salesman, own car, large live connection wholesale, co-ops and retail, open to represent reputable company. Commission only terms considered. Box C 2693.

AGENCIES WANTED

SMALL PHARMACEUTICAL COMPANY wishes to appoint a sole agent for their products, mainly ethicals. The advertisers have a good following in the South, but wish to appoint a firm who are able and willing to expand the range of distribution with both doctors and hospitals. Box C 2747.

BUSINESS OPPORTUNITIES

A BARGAIN. £25 complete, BRAND NEW READY-MADE COMPANY REGISTRATION. GUARANTEED NO TRADING (England and/or Scotland), all trades available now, including Chemists; Fancy Goods; Photography; Investment; General Merchants and all other trades. Write, phone or call (for English Registrations)—Business Economy Co., Regns., Ltd., (Dept. T/9), 156 Strand, London, W.C.2, (Tem. 8377/2294); (for Scottish Registrations) to 19 Walker Street, Edinburgh, 3. (Cal. 1167/9); Read "Advantages of Trading as a Limited Company" (3/- post free); Ltd. Co. may save you tax. We also have seven day Company Registration with your own choice of name, twenty guineas, particulars on application. C 506

BELLS OF WATERFORD, manufacturing Chemists, established 98 years, are in a position to offer service of manufacture, packing and distributing of well-advertised lines. Every town and village in the twenty-six Counties of Ireland covered four times yearly. C 5154

CAPITAL REQUIRED to develop sales of unique and beautifully presented product. Many years' trading evidence, without advertising, ensures exceptional return on the investment. Product is edible, uncompetitive and untaxed with high profit margin. Plans for test campaign completed. Request recently received for marketing rights in U.S.A. and Canada. Principals only. C 2751

RUBBER BUNGS in many standard sizes and qualities or to specification. Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N.16. C 511

SMALL PHARMACEUTICAL COMPANY, with substantial approved tax losses for disposal, with or without registered Trade Marks. Company at present not trading. Box C 2749

WORKING DIRECTORSHIP offered by small company, ethicals. Preference would be given to applicants who have experience in medical detailing to hospitals and doctors. Essential qualifications are, investment of £1,500/£2,000, and enthusiasm. Box C 2748.

WANTED

SURPLUS CAMERAS, ENLARGERS, CINE CAMERAS & PROJECTORS, PHOTOGRAPHIC EQUIPMENT OF EVERY DESCRIPTION, SURPLUS AND OUTDATED FILM & PAPER, LARGE OR SMALL QUANTITIES, Phone, write or call:—

SPEARS
(Dept. D.), Watling Street, Shudehill, Manchester.
Phone: Deansgate 7705 (3 lines)
Bankers: Midland Bank, Ltd. C 438

URGENTLY required for cash, chemist's surplus stocks, bulk or part, particularly toiletries, cosmetics, sundries, discontinued manufacturers' lines welcomed. Films, photographic equipment, etc. Write immediately to Box C 2683.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

PATENTS

PATENT No. 743674—Improvements in Food Compositions.

The Proprietors of Patent No. 743674 desire to enter into arrangements by way of licence or otherwise on reasonable terms to ensure its full development and commercial working in this country.

Address enquiries to:—

W. P. THOMPSON & CO.,
Chartered Patent and Trade Mark Agents,
12 Church Street,
Liverpool, 1

C 2746

MISCELLANEOUS SALES

BARGAIN. Newman labelling machine complete with motor and accessories. Model 23A, first-class condition, as new, 12 months old, hardly used, many extra fittings, original cost over £400, will accept £225, o.n.o. C 5185

7 LB. Cologne essence, 2 lb. verbena, 4 lb. oil of bay, 4 lb. benzyl acetate, 8 winchesters (90 oz.) tinct. zingib. fortis, 4 gal. brandy essence, £5 the lot, 2 stainless steel containers, lipped and handled, £5 the two. 3 Middle Street, Stroud, Glos. C 2735

SURPLUS STOCK, white folding boxes, square, 5 x 5 x 3, also 10 x 5 x 3 available, 4,000 each size. Also steel stud head terminal screws, half-inch 3 B.A., 50 gross, all new condition. Offers whole or part. Box C 2750.

MISCELLANEOUS

DISPLAY STANDS. 1,500 white enamelled metal and glass counter display stands, overall size 13½ in. x 12½ in. and 12 in. x 12 in. One model with three shelves the other with five. Plate-glass window. Suitable for pharmaceutical bottles and cartons. Available in one-dozen lots or more. Box C 2729.

EAREX, LTD., of Southport, have arranged a national advertising campaign for EAREX DROPS. Obtainable from your Wholesaler. Retail 3/6, 7/6 and 25/-. Direct terms for 10-dozen lots. Please write to EAREX, LTD., Southport, if you have any difficulty in obtaining supplies. C 5140

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D and P

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C 274

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C 498

Lederle puts antibiotic therapy on a NEW high plane

UNIQUE **high ratio** ACTIVITY

*the **EXTRA SECURITY** of NEW*

Ledermycin[†]

DEMETHYLCHLORTETRACYCLINE

† TRADEMARK

entirely new broad-spectrum antibiotic for prolonged activity at lower dosage

LEDERMYCIN demethylchlortetracycline is an "extra active" high ratio antibiotic derived from a strain of *Streptomyces aureofaciens* (the organism from which AUREOMYCIN[†] chlortetracycline and ACHROMYCIN* tetracycline originate) but with properties which set it way above other tetracyclines. As well as exerting the unsurpassed broad-spectrum action of tetracycline, LEDERMYCIN demethylchlortetracycline achieves far more intensive, far more prolonged activity, with far less antibiotic. Its markedly lower renal clearance rate, together with its higher stability, has the effect of prolonging its powerful antibacterial action for 24-48 hours after the drug is withdrawn.

HIGHEST RATIO of peak activity to daily intake of any known broad-spectrum antibiotic.

HIGHEST RATIO of sustained activity to dosage—giving "extra day" activity and protection against resurgence of primary infection or relapse with secondary invasion, after withdrawal.

HIGHEST RATIO of stability in body media to dosage bringing an even higher standard of consistency to the therapy.

Packing and basic N.H.S. cost:

In a distinctive duo-tone dry-filled capsule. Capsules of 150 mg. Bottles of 16: £1 9s. od.; 100: £8 14s. 2d.; and 1,000: £84 2s. 4d. Average adult dose: 1 capsule 4 times daily.



THE ETHICAL MEDICAL PREPARATION FOR
THE TREATMENT OF ASTHMA



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in Hospitals, Private Practice and Government
Departments in all parts of the world to which it
has been introduced.*

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